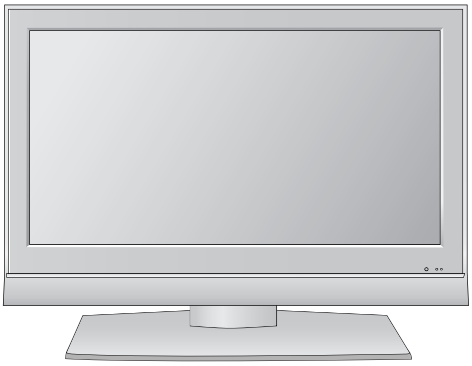
website:http://biz.LGservice.com

LCD TV
SERVICE MANUAL

CHASSIS : LJ71A

MODEL : 20LS7D 20LS7D-JA

CAUTION
BEFORE SERVICING THE CHASSIS,
READ THE SAFETY PRECAUTIONS IN THIS MANUAL.



CONTENTS

SAFETY PRECAUTIONS

IMPORTANT SAFETY NOTICE

Many electrical and mechanical parts in this chassis have special safety-related characteristics. These parts are identified by ⚠ in the Schematic Diagram and Replacement Parts List.
It is essential that these special safety parts should be replaced with the same components as recommended in this manual to prevent Shock, Fire, or other Hazards.
Do not modify the original design without permission of manufacturer.

General Guidance

An **isolation Transformer should always be used** during the servicing of a receiver whose chassis is not isolated from the AC power line. Use a transformer of adequate power rating as this protects the technician from accidents resulting in personal injury from electrical shocks.

It will also protect the receiver and it's components from being damaged by accidental shorts of the circuitry that may be inadvertently introduced during the service operation.

If any fuse (or Fusible Resistor) in this TV receiver is blown, replace it with the specified.

When replacing a high wattage resistor (Oxide Metal Film Resistor, over 1W), keep the resistor 10mm away from PCB.

Keep wires away from high voltage or high temperature parts.

Before returning the receiver to the customer,

always perform an **AC leakage current check** on the exposed metallic parts of the cabinet, such as antennas, terminals, etc., to be sure the set is safe to operate without damage of electrical shock.

Leakage Current Cold Check(Antenna Cold Check)

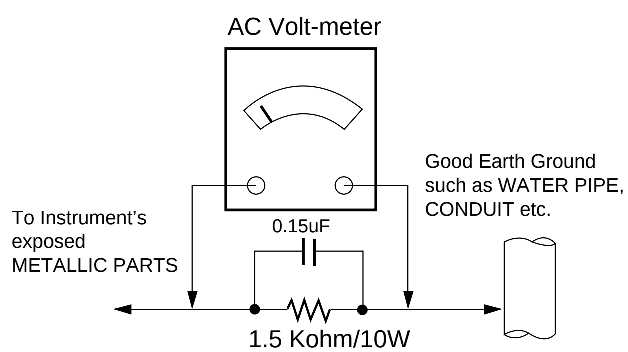
With the instrument AC plug removed from AC source, connect an electrical jumper across the two AC plug prongs. Place the AC switch in the on position, connect one lead of ohm-meter to the AC plug prongs tied together and touch other ohm-meter lead in turn to each exposed metallic parts such as antenna terminals, phone jacks, etc.
If the exposed metallic part has a return path to the chassis, the measured resistance should be between 1MΩ and 5.2MΩ.
When the exposed metal has no return path to the chassis the reading must be infinite.
An other abnormality exists that must be corrected before the receiver is returned to the customer.

Leakage Current Hot Check (See below Figure)

Plug the AC cord directly into the AC outlet.

Do not use a line Isolation Transformer during this check.
Connect 1.5K/10watt resistor in parallel with a 0.15uF capacitor between a known good earth ground (Water Pipe, Conduit, etc.) and the exposed metallic parts.
Measure the AC voltage across the resistor using AC voltmeter with 1000 ohms/volt or more sensitivity.
Reverse plug the AC cord into the AC outlet and repeat AC voltage measurements for each exposed metallic part. Any voltage measured must not exceed 0.75 volt RMS which is corresponds to 0.5mA.
In case any measurement is out of the limits specified, there is possibility of shock hazard and the set must be checked and repaired before it is returned to the customer.

Leakage Current Hot Check circuit



SPECIFICATION

NOTE : Specifications and others are subject to change without notice for improvement.

1. Application range

This specification sheet is applied to the 20"/ 23" Wide LCD Digital TV used LJ71A chassis.

2. Requirement for Test

Each part is tested as below without special appointment.

(1) Power : Standard input voltage (100V, 50/60Hz)
(2) Specification and performance of each parts are followed each drawing and specification by part number in accordance with BOM
(3) The TV set must be operated for about 20 minutes prior to the adjustment.

3. Test method

(1) Performance : LGE TV test method followed
(2) Demanded other specification
Safety : JQA Specification
EMC : JQA Specification

4. General Specification(TV)

No	Item	Specification	Remark
1	Video input applicable system	NTSC-M/ ISDB-S	
2	RF Input Channel	1) VHF : 1 ~ 12	
		2) UHF : 13 ~ 62	
		3) CATV : C13 ~ C38	
		4) Terr. digital : 000 ~ 999	(Logical CH Number)
		5) BS digital : 000 ~ 999	(Logical CH Number)
		6) CS digital : 000 ~ 999	(Logical CH Number)
3	Input Voltage	100V~, 50/60Hz	
4	Market	Japan	
5	Tuning System	FS	
6	Operating Environment	Temp : 0 ~ 40 deg	
		Humidity : 10~90 %RH	
7	Storage Environment	Temp : -20 ~ 50 deg	
		Humidity : 10~90 %RH	
8	Display	LCD Module	

5. Module Specification

5.1. 20”LCD Module (AUO T200XW02 V0)

No.	Item		Min	Typ.	Max	Unit	Remark
1	Display area		443.61 (H) *249.41(V)			mm	
2	Outline dimension		472.0 (H) x 276.5 (V) x23.0 (D)			mm	Typ
3	Number of Pixels		1366 (H) x 768(V)				1Pixel=3RGB Cells
4	Cell pitch		324.75μm (H) x 324.75μm (V)			μm	1Pixel=3RGB Cells
5	Color arrangement		RGB vertical stripe				
6	Weight(net)		3			Kg	Max
7	Operating Environment	Temperature	0 ~ 50			deg	
		Humidity	10 ~ 90			%	
8	Storage Environment	Temperature	-20 ~ 60			deg	
		Humidity	10 ~ 90			%	
9	Electrical Interface		LVDS				
10	Back light Unit		6 CCFL (6 lamps)				
11	R/T		8ms			Typ.	

5.1. Optical characteristic specifications

No.	Item	Specification					Remark
				Min	Typ.	Max	
1	Viewing Angle <CR≥10>	R/L			80/80		
		U/D			70/70		
2	Luminance	Luminance (cd/m^2)		350	450		
3	Contrast Ratio	CR		600	700		All white / All black
4	CIE Color Coordinates	WHITE	Wx	Typ.	0.295	Typ.	In AV input
			Wy	-0.03	0.305	+0.03	PSM : Dynamic
		RED	Rx		0.640		White (100 IRE)
			Ry		0.330		
		GREEN	Gx		0.290		
			Gy		0.600		
		BLUE	Bx		0.150		
			By		0.060		

6. Model Specification

No.	Item		Specification	Remark
1	Analog-terrestrial	Broadcasting system	NTSC-M	
		RF Input Channel	VHF : 1~12 UHF : 13~62 CATV : C13~C38	
2	Digital-terrestrial	Broadcasting system	ISDB-T	
		RF Input Channel	000~999 CH.	Logical CH Number
3	Digital-BS/SC	Broadcasting system	ISDB-S	
		RF Input Channel	000~999 CH.	
4	Video Input		NTSC-3.58	NTSC4.43/PAL/PAL60/SECAM -> No Guarantee
5	S-Video Input		NTSC-3.58	NTSC4.43/PAL/PAL60/SECAM -> No Guarantee
6	D-terminal Input		Y/ Pb/Pr(D4: 480i/480P/720P/1080i)	576i/576p/720p(50Hz)/1080i(50Hz) -> No Guarantee
7	HDMI Input		HDMI	
8	Audio Input		L/R Input	3EA : CVBS, S-video, D-terminal
9	Digital Optical Audio output		AAC 5.1c Output PCM 2ch Output	Available for Digital TV only
10	Modem		2400bps(max)	
11	Conditional Acess System		B-CAS System	
12	EPG			
13	DATA Broadcasting			

7. Component Video Input (Y, P_B, P_R)

No	Resolution	H-freq(kHz)	V-freq.(kHz)	Pixel clock(MHz)	Proposed
1	720*480	15.73	59.94	13.500	SDTV, DVD 480I
2	720*480	15.75	60.00	13.514	SDTV, DVD 480I
3	720*480	31.47	59.94	27.000	SDTV 480P
4	720*480	31.50	60.00	27.027	SDTV 480P
5	1280*720	44.96	59.94	74.176	HDTV 720P
6	1280*720	45.00	60.00	74.250	HDTV 720P
7	1920*1080	33.72	59.94	74.176	HDTV 1080I
8	1920*1080	33.75	60.00	74.250	HDTV 1080I

8. HDMI input (DTV)

No	Resolution	H-freq(kHz)	V-freq.(kHz)	Pixel clock(MHz)	Proposed
1	720*480	15.73	59.94	13.500	SDTV 480I
2	1440*480	15.75	60.00	27.027	SDTV 480I
3	720*576	15.63	50.00	13.500	SDTV 576I
4	1440*576	15.63	50.00	27.000	SDTV 576I
5	720*480	31.47	59.94	27.000	SDTV 480P
6	720*480	31.50	60.00	27.027	SDTV 576P
7	720*576	31.25	50.00	27.000	SDTV 576P
8	1280*720	37.5	50.00	74.250	HDTV 720P
9	1280*720	44.96	59.94	74.176	HDTV 720P
10	1280*720	45.00	60.00	74.250	HDTV 720P
11	1920*1080	33.72	59.94	74.176	HDTV 1080I
12	1920*1080	33.75	60.00	74.250	HDTV 1080I
13	1920*1080	28.125	50.00	74.250	HDTV 1080I

ADJUSTMENT INSTRUCTION

1. Application Range

This specification sheet is applied to 20"/ 23" LCD TV which is manufactured in TV (or Monitor) Factory or is produced on the basis of this data.

2. Specification

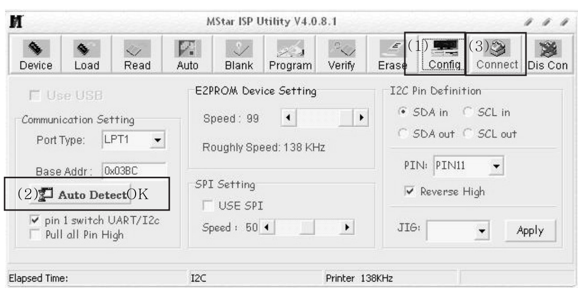
1) The adjustment is according to the order which is designated and which must be followed, according to the plan which can be changed only on agreeing.
2) Power Adjustment: 100V, 50/60Hz
3) Magnetic Field Condition: Nil.
4) Input signal Unit: Product Specification Standard
5) Reserve after operation: Above 30 Minutes
6) Adjustment equipments: Color Analyzer(CA-210 or CA-110), Pattern Generator (MSPG-925L or Equivalent), DDC Adjustment Jig equipment, SVC remote control

3. Main PCB check process

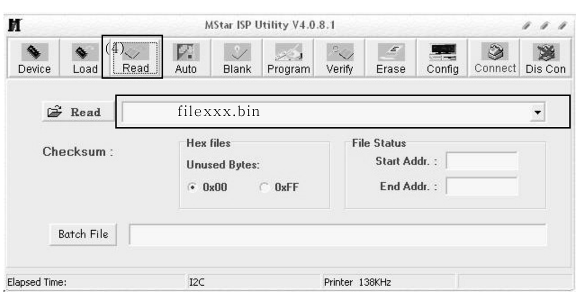
*** APC - After Manual-Insert, executing APC**

3.1. Download

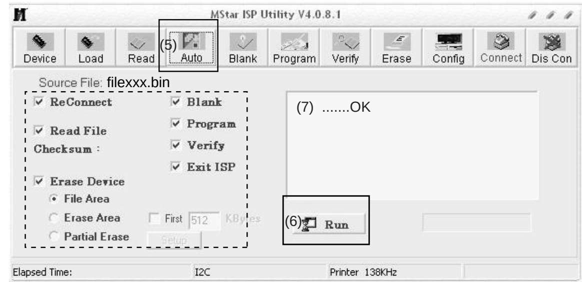
1) Execute ISP program "Mstar ISP Utility"
2) Click "Config" and set as below
3) Click "Auto Detect" and check "OK" message.
   If "Error" is displayed, check connecting computer, jig, and set again.
4) Click "Connect".
   If "Can't" is displayed, check connecting computer, jig, and set.



5) Click "Read" tab, and then load download file(XXXX.bin) by clicking "Read".



6) Click "Auto" tab and set as below.
7) click "Run".
8) After downloading, check "OK" message.



3.2. ADC Process

(1) COMPONENT input ADC

1) Component Gain/Offset Adjustment
   - Convert to Component in Input-source
   - Signal equipment displays
     Impress Resolution 480P
     MODEL : 212 in Pattern Generator
     (480p Mode, Y : 100%, Pb/Pr : 100%)
     PATTERN : 08 in Pattern Generator
     (MSPG-925 Series)
   - Adjust by commanding AUTO_COLOR_ADJUST (0xF1) 0x00 0x02 instruction.



2) Confirmation
   - We confirm whether "0x8E" address of EEPROM "0xB4" is "0xAA" or not.
   - If "0x8E" address of EEPROM "0xB4" isn't "0xAA", we adjust once more.
   - We can confirm the ADC values from "0x00~0x05" addresses in a page "0xB4".

3.3. Function Check

(1) Check display and sound

- Check Input and Signal items. (cf. work instructions)
  1) TV
  2) AV1 : CVBS
  3) AV2 : CVBS/ S-Video
  4) COMPONENT : D-terminal(D4)
  5) HDMI

* Display and Sound check is executed by Remote control.

4. Total Assembly line process

4.1. Adjustment Preparation

- Above 30 minutes H/run in RF no signal

4.2. Confirm color coordinate of component

(1) Set Input to COMPONENT.
(2) Input signal : 480P
Full white 216/255 gray level (85 IRE Model : 212, Pattern : 78 at MSPG925L)
(3) Set PSM : Dynamic / CSM : Cool
(4) Confirm whether x = 0.306±0.03, y = 0.304±0.03 or not.

4.3. Confirm color coordinate of AV2

(1) Set Input to AV2
(2) Input signal : CVBS, NTSC-M
Full white 216/255 gray level (85 IRE, Model : 201, Pattern : 78 at MSPG925L)
(3) Set PSM : Dynamic / CSM : Cool
(4) Confirm whether x = 0.276±0.03, y = 0.283±0.03 or not.

4.4. Other quality

- Confirm that each items satisfy under standard condition that was written product spec.
- Confirm Video and Sound at each source

(1) Analog TV

- Select input Analog TV and check whether picture is displayed or not.

(2) Terrestrial Digital TV

- Select input Terrestrial Digital TV and check whether picture is displayed or not.
* Use ISDB-T Signal Generator(LG3802) and Stream (Ch11, NHK1, Freq.473.143MHz) stored in the Generator.

Caution) It's necessary to connect B-CAS CARD when you check this source.

(3) Satellite Digital TV (BS/CS)

Select input BS satellite Digital TV and check whether picture is displayed or not.

Caution) It's necessary to connect B-CAS CARD when you check this source.

(4) AV1

- Select input AV1 (CVBS) and whether picture is displayed or not.

(5) AV2

- Select input AV2 (CVBS/S-video) and whether picture is displayed or not

(6) COMPONENT

- Select input COMPONENT and whether picture is displayed or not.

(7)HDMI

- Select input HDMI and whether picture is displayed or not

4.5. Power Consumption

1) Press "EYE" button on LG Adjust remocon and check whether LED color is amber or not.
2) Press "POWER" button on LG Ajust remocon to enter Stand-by mode.
3) Check the power consumption. (Under 1W)

4.6. HDCP setting

(High-Bandwidth Digital Contents Protection)

- Connect HDMI cable to HDMI jack.
- Input HDCP key with HDCP-key-in-program.
- HDCP key value is stored on EEPROM(AT24C64) which is E00~F20 addresses of 0xBC~0xBE page.
- AC off/on and on HDCP button of MSPG925 and confirm whether picture is displayed or not of using MSPG925.
- HDCP key value is different among the sets.

4.7 DDC EDID Write

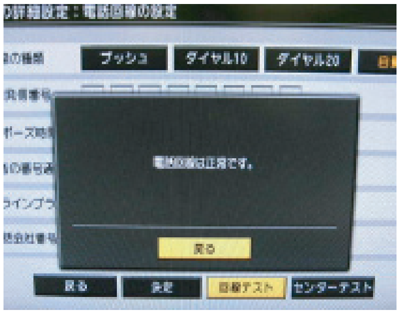
1) Connect HDMI Signal Cable to HDMI Jack.
2) Write EDID DATA to EEPROM(24C02) by using DDC2B protocol.
3) Check whether written EDID data is correct or not. (refer to Product spec).

<DIGITAL DATA 256Byte>

Addr	00	01	02	03	04	05	06	07	08	09	0A	0B	0C	0D	0E	0F
0000	00	FF	FF	FF	FF	FF	FF	00	1E	6D	6C	56	01	01	01	01
0010	00	11	01	03	80	2C	19	78	0A	E6	98	A3	54	4A	99	26
0020	0F	4B	4E	A1	08	00	01	01	01	01	01	01	01	01	01	01
0030	01	01	01	01	01	01	8C	0A	D0	8A	20	E0	2D	10	10	3E
0040	96	00	BB	F9	10	00	00	18	00	00	00	FC	00	4C	47	20
0050	54	56	0A	20	20	20	20	20	20	20	00	00	00	FD	00	2D
0060	41	19	32	08	00	0A	20	20	20	20	20	20	00	00	00	FC
0070	00	4C	47	20	54	56	0A	20	20	20	20	20	20	20	01	7E
0080	02	03	1C	72	23	09	07	02	49	07	16	81	03	05	14	13
0090	12	04	83	01	00	00	65	03	0C	00	10	00	01	1D	80	18
00A0	71	1C	16	20	58	2C	25	00	BB	F9	10	00	00	9E	01	1D
00B0	80	D0	72	1C	16	20	10	2C	25	80	BB	F9	10	00	00	9E
00C0	01	1D	00	BC	52	D0	1E	20	B8	28	55	40	BB	F9	10	00
00D0	00	1E	8C	0A	D0	90	20	40	31	20	0C	40	55	00	BB	F9
00E0	10	00	00	18	01	1D	00	72	51	D0	1E	20	6E	28	55	00
00F0	BB	F9	10	00	00	1E	00	00	00	00	00	00	00	00	00	9A

4.8. Modem Communication check

1) Connect a telephone wire between TV and Terminal adapter (MN128mini-SV1)
2) Press "EYE" button on LG Adjust Remocon and chek whether Power LED color is amber or not.
3) Press "MODE" button on LG Adjust Remocon and check whether the other LED color is red or not.
4) After "회 선test" is progressing automatically in DTV menu, check whether the message is displayed or not as below.
(During "회 선test", color of the other LED is green.)
If the message is displayed, Modern communication test is OK.



4.9. Hi-POT

Confirm whether is normal or not when between power board's as block and GND is impacked on 1500 Vac or 2121 Vdc/1sec for one second.
(Judgment condition
: 1) Supply DC voltage -> set cut-off current to 10mA
2) Supply AC voltage -> set cut-off current to 100mA)

4.10. Insulation

After setting above condition, supply 500Vdc and then measure the insultion resistance(Spec : above 4M ohm)

4.11. Outgoing condition Configuration

- Analog/ Digital TV Initializing
  1) Press "EYE" button on LG ADJUST REMOCON.
     (If Pressed "EYE" button on LG ADJUST REMOCON, Color of Power LED will be Amber)
  2) Press "IN-STOP" button on LG ADJUST REMOCON. It is executed 3~15 procedure automatically by Software program.(If pressed "IN-STOP" button, Color of "회선사용중" LED will be RED)
  3) After Initializing is finished, the TV set turns off automatically.

4.10. Option data setting(SVC OSD setting)

TOOL OPTION	17280
AREA OPTION	0
OPTION 1	6
OPTION 2	2
OPTION 3	2
OPTION 4	0
OPTION 5	9

* Tool/Area option confirm.
  If Tool option(17280)/Area option(0) is not, change the Tool option(17280)/Area(0) value compulsorily.

5. Adjustment Command

5.1. Adjustment Commands(LENGTH=84)

Adjustment Contents	CMD(hex)	ADR	VAL	Description
FACTORY ON	E0	00	00	Factory mode on
FACTORY OFF	E2	00	00	Factory mode off
EEPROM ALL INIT.	E4	00	00	EEPROM All clear
EEPROM Read	E7	00	00	EEPROM Read
EEPROM Write	E8	00	data	EEPROM Write by some values
COLOR SAVE (R/G/B cutoff, Drive, Contrast, Bright)	EB	00	00	Color Save
H POSITION	20	00	00 – 100	They have different range each mode, FOS Adjustment.
V POSITION	30	00	00 – 100	
CLOCK	90	00	00 – 100	
PHASE	92	00	00 – 100	
R DRIVE	16	00	00 – FF	Drive adjustment
G DRIVE	18	00	00 – FF	
B DRIVE	1A	00	00 – FF	
R CUTOFF	80	00	00 – 7F	Offset adjustment
G CUTOFF	82	00	00 – 7F	
B CUTOFF	84	00	00 – 7F	
BRIGHT	10	00	00 – 3F	Bright adjustment
CONTRAST	12	00	00 - 64	Luminance adjustment
AUTO_COLOR_ADJUST	F1	00	02	Auto COLOR Adjustment
CHANGE_COLOR_TEMP	F2	00	0,1,2,3	0 : COOL, 1 : NORMAL, 2 : WARM, 3 : USER
FACTORY_DEFAULT	F3	00	00	Factory mode off & II_SW is "1" & Input change to " TV"
AUTO_INPUT CHANGE	F4	00	0,1,2,4	0:ATV, 1:Video1, 2:Video2, 3:DTV, 4:D-TERMNAL, 5:HDMI

5.2 EEPROM DATA READ

(1) Signal Table

START 6E A 50 A 84 A 03 A CMD A ADH A ADL A CS A STOP

Delay 100ms

START 6F A D1 A - Dn A STOP

128 Bytes

(2) Command Set

Adjustment contents	CMD(hex)	ADH(hex)	ADL(hex)	Details
EEPROM READ	E7	A0	0	0-Page 0~7F Read
			80	0-Page 80~FF Read
		A2	0	1-Page 0~7F Read
			80	1-Page 80~FF Read
		A4	0	2-Page 0~7F Read
			80	2-Page 80~FF Read
		A6	0	3-Page 0~7F Read
			80	3-Page 80~FF Read

* Purpose : To read the appointment Address of E^{2}PROM by 128(80h)-byte

5.3. E^{2}PROM Data Write

(1) Signal Table

START 6E A 50 A 84+n A 03 A CMD A ADH A ADL A

Data_1 A . . . Data_n A CS A STOP

LEN : 84h+Bytes

CMD : 8Eh

ADH : E^{2}PROM Slave Address(A0,A2,A4,A6,A8), Not 00h(Reserved by BufferToEEPROM)

ADL : E^{2}PROM Sub Address(00~FF)

Data : Write data

(2) Command Set

Adjustment contents	CMD(hex)	ADH(hex)	Details
EEPROM WRITE	E8	94	16-Byte Write
		84+n	n-byte Write

* Purpose
  1) EDID write : 16-byte by 16-byte, 8 order (128-byte) write(TO “00 – 7F” of “EEPROM Page A4”).
  2) FOS Default write : 16-mode data (HFh, HFl, VF, STD, HP, VP, Clk, ClkPh, PhFine) write.
  3) Random Data write : write the appointment Address of E^{2}PROM.

5.4. VRAM Read

1) Send CMD(70h) to read Video RAM value from MICOM And save its value to 128-Bytes Buffer.(Common Buffer for the use of EDID)

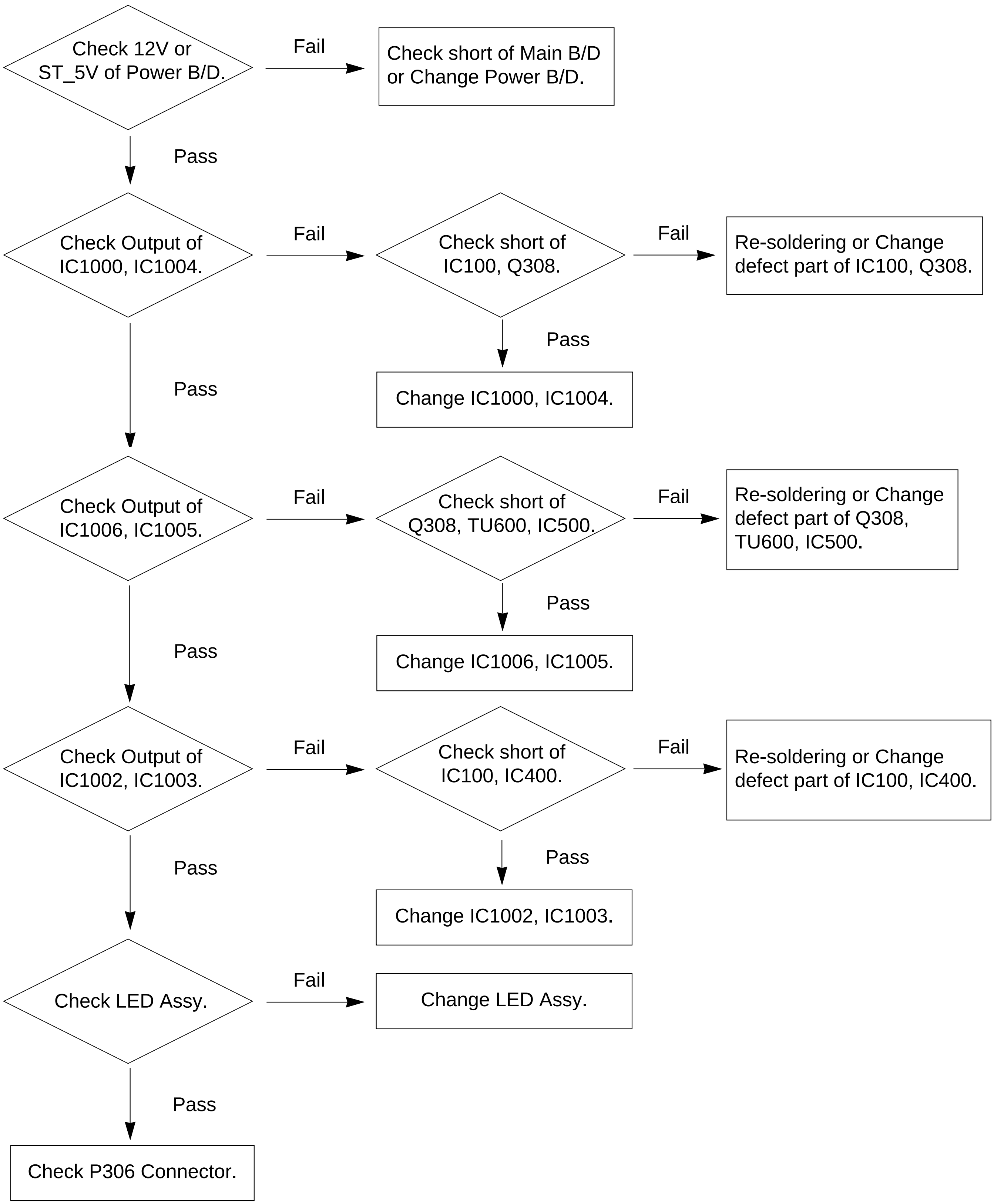
START 6E A 50 A 84 A 03 A 70 A 00 A 00 A CS A STOP

2) Delay 500ms. (Time to Wait and Read Video RAM from MICOM)
3) Be transmitted the contents of MICOM’s 128-bytes Buffer to PC. (128th Data is the CheckSum of 127-bytes data : That’s OK if the value of adding 128-bytes Data is Zero)

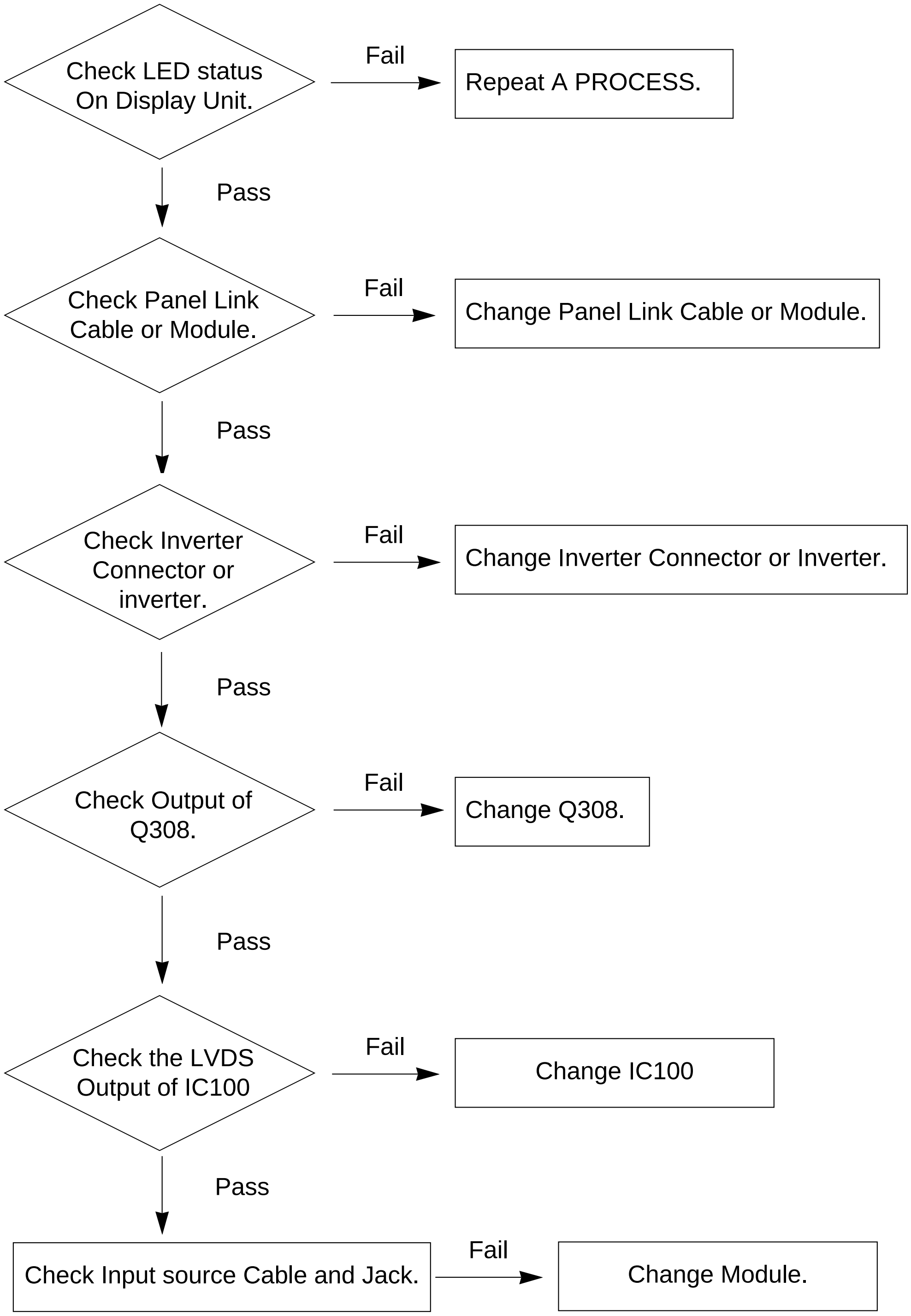
START 6F A Data1 . . . Data 128 A CS NA STOP

TROUBLE SHOOTING

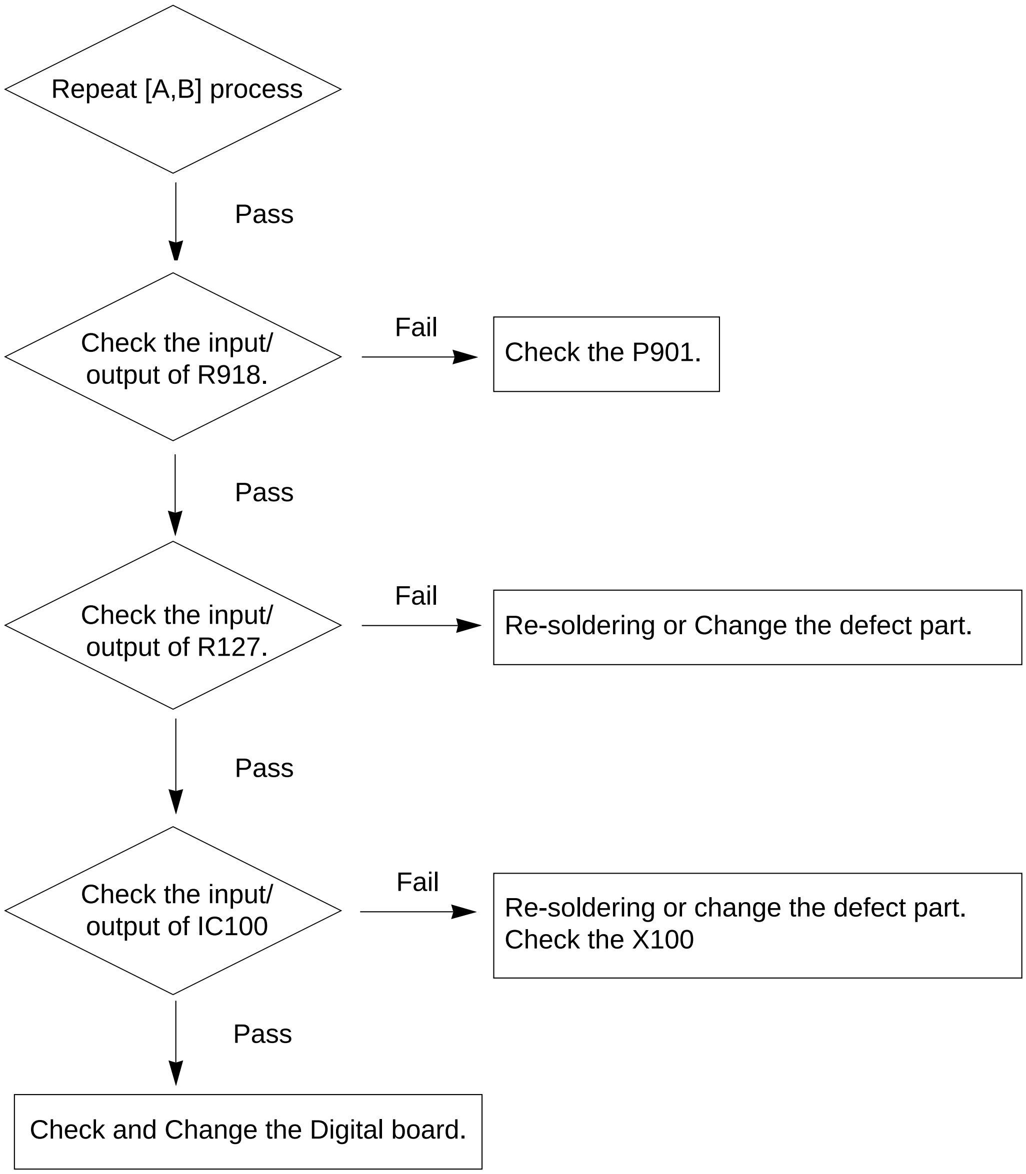
1. No Power (LED indicator off) : [A] Process



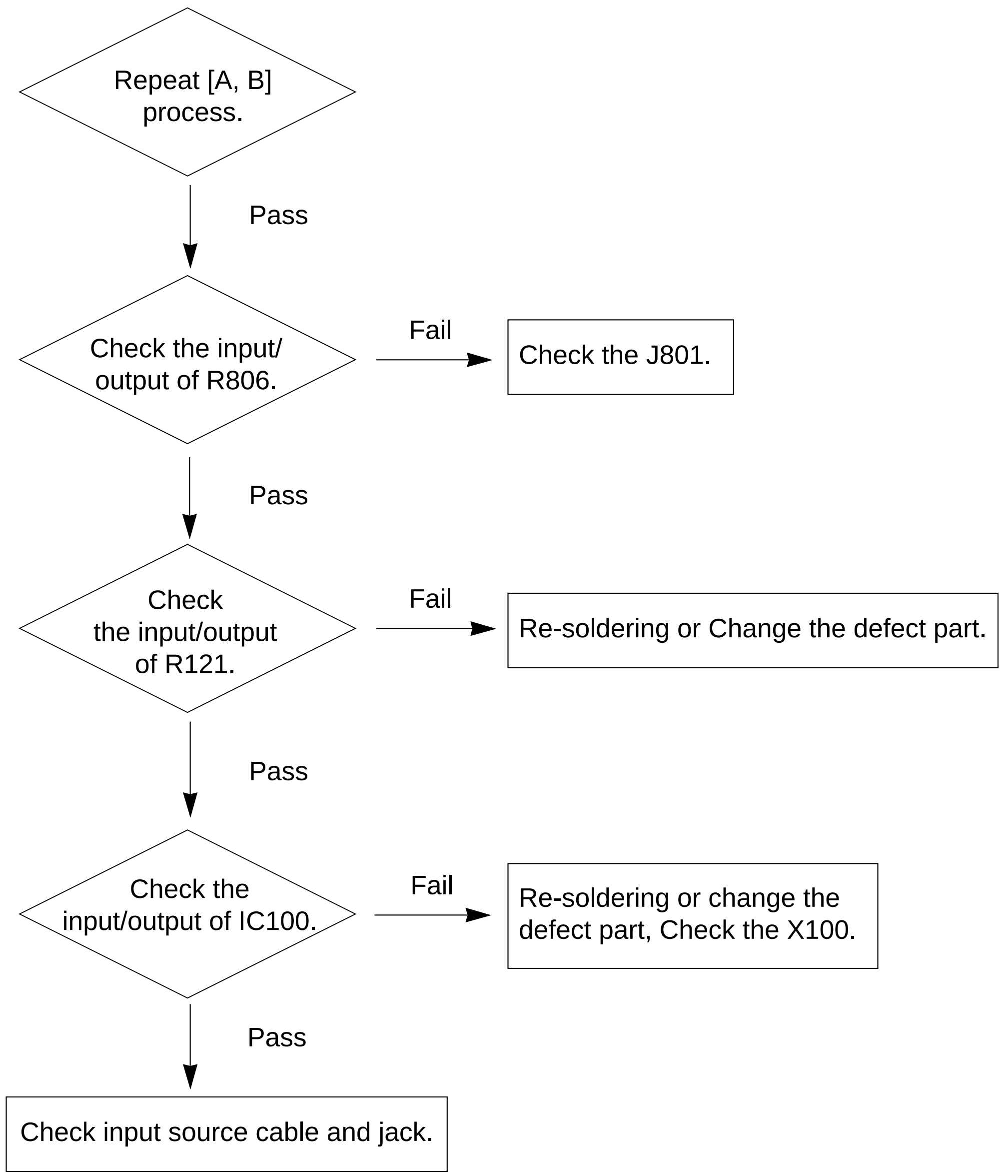
2. No RASTER : [B] Process



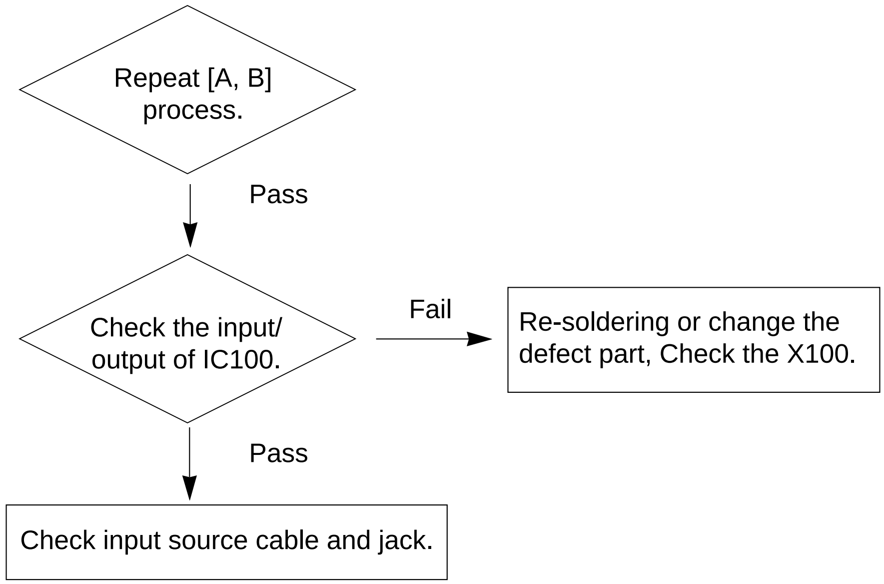
3. No RASTER on DTV Signal



4. No Raster on Component Signal

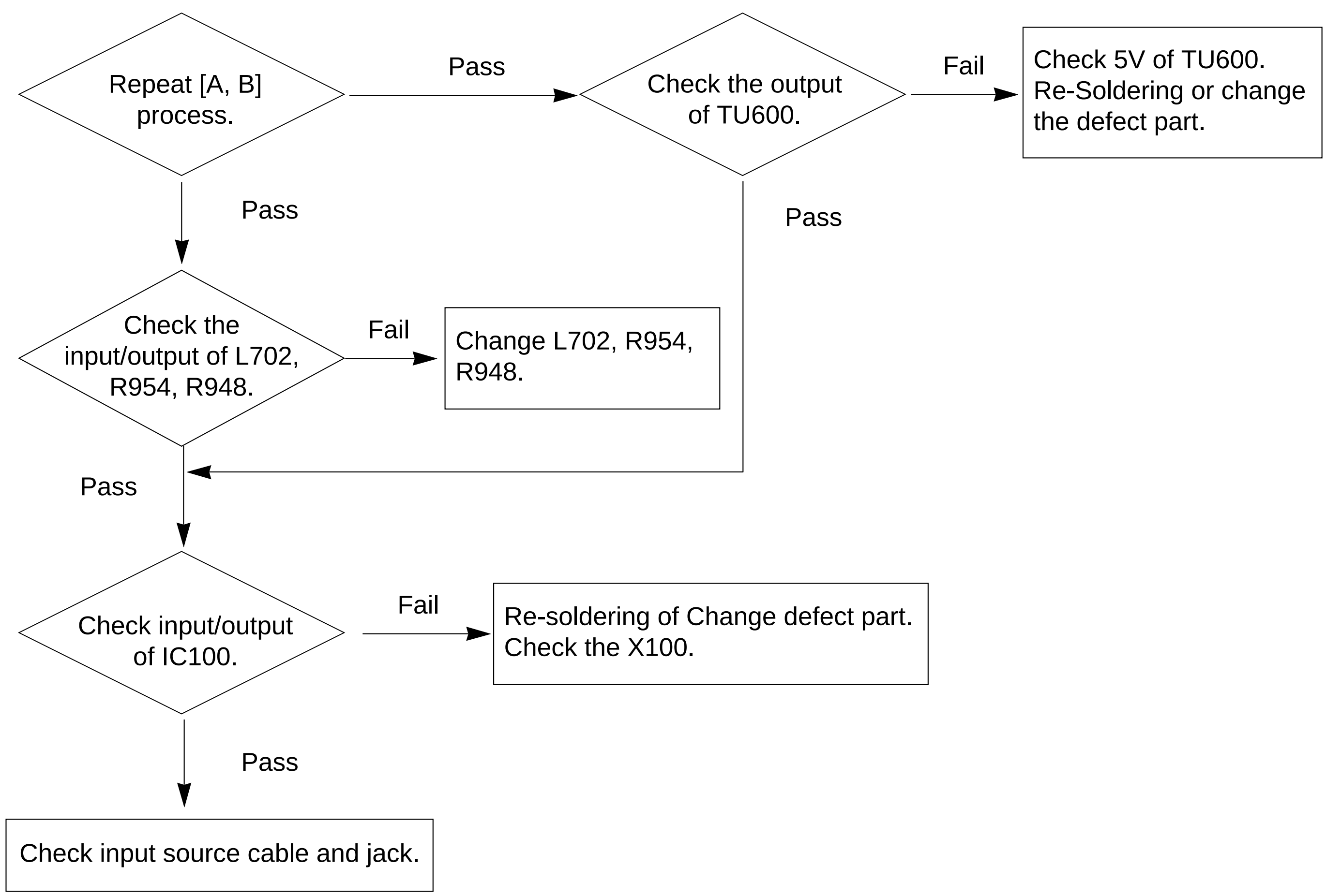


5. No Raster on HDMI Signal

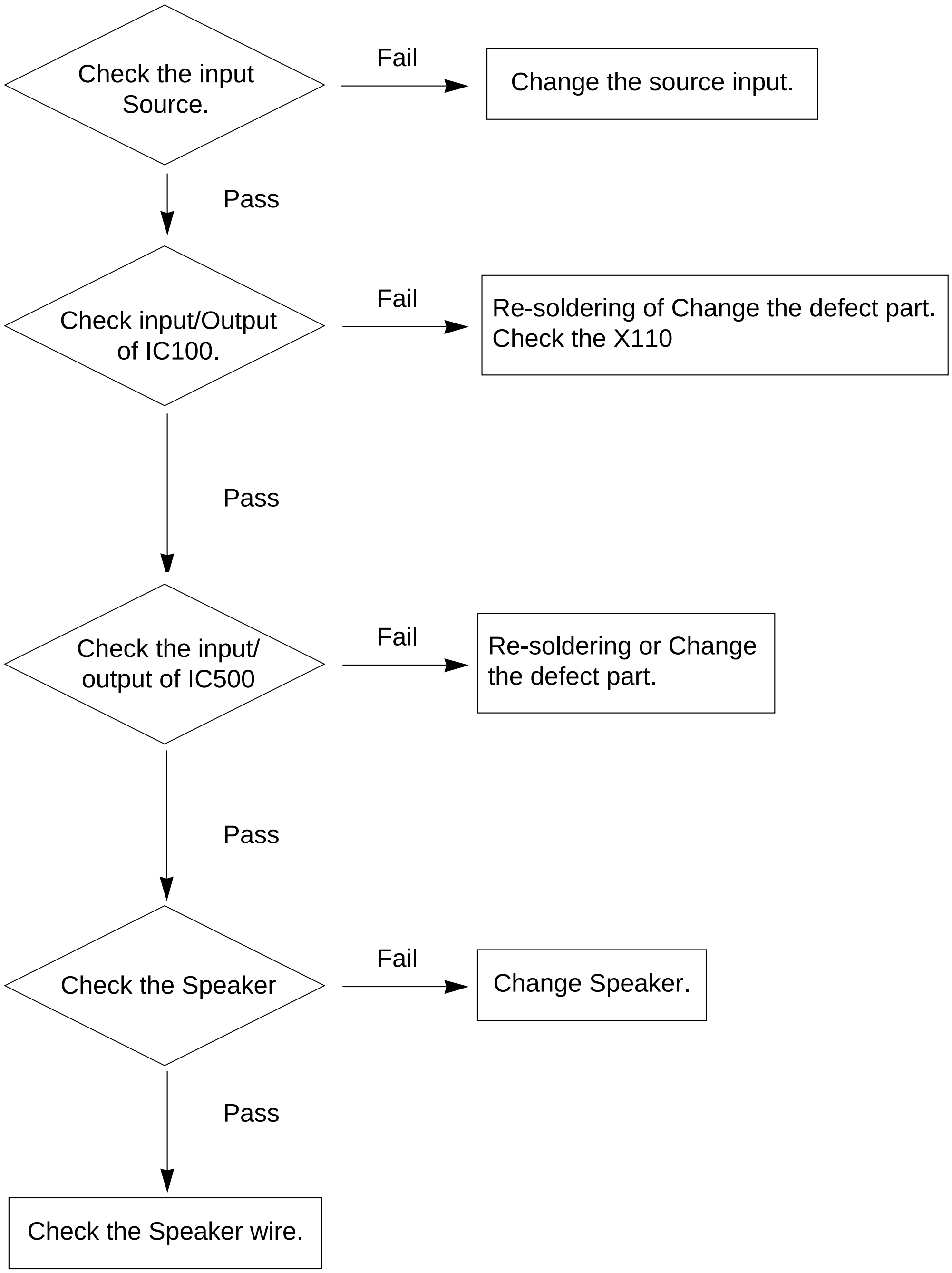


6. No Raster on AV (Video, S-Video) Signal

7. No Raster on TV(RF) Signal



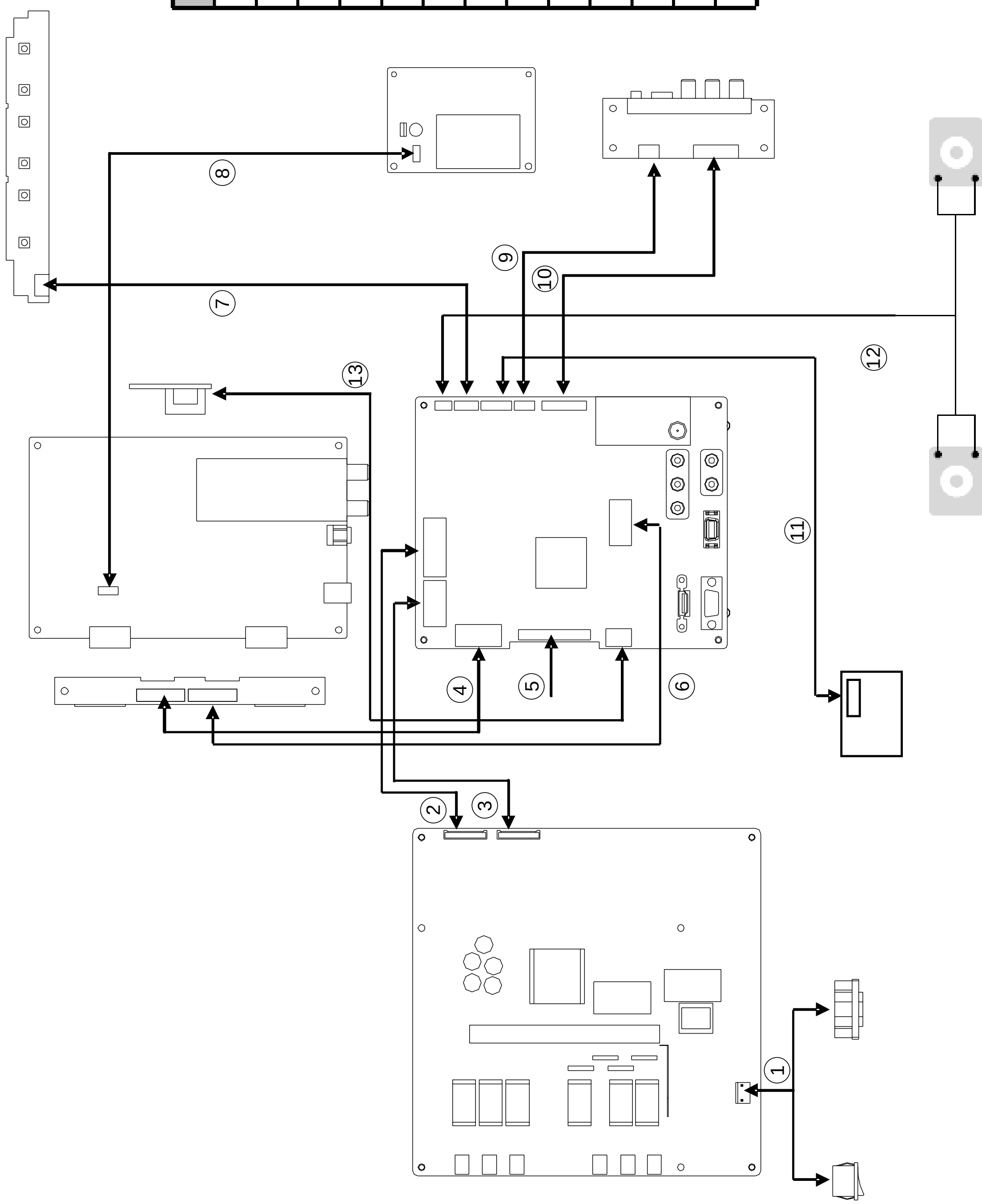
8. No sound


Check the input Source.
Fail
Change the source input.
Pass
Check input/Output of IC100.
Fail
Re-soldering of Change the defect part. Check the X110
Pass
Check the input/ output of IC500
Fail
Re-soldering or Change the defect part.
Pass
Check the Speaker
Fail
Change Speaker.
Pass
Check the Speaker wire.

WIRING DIAGRAM

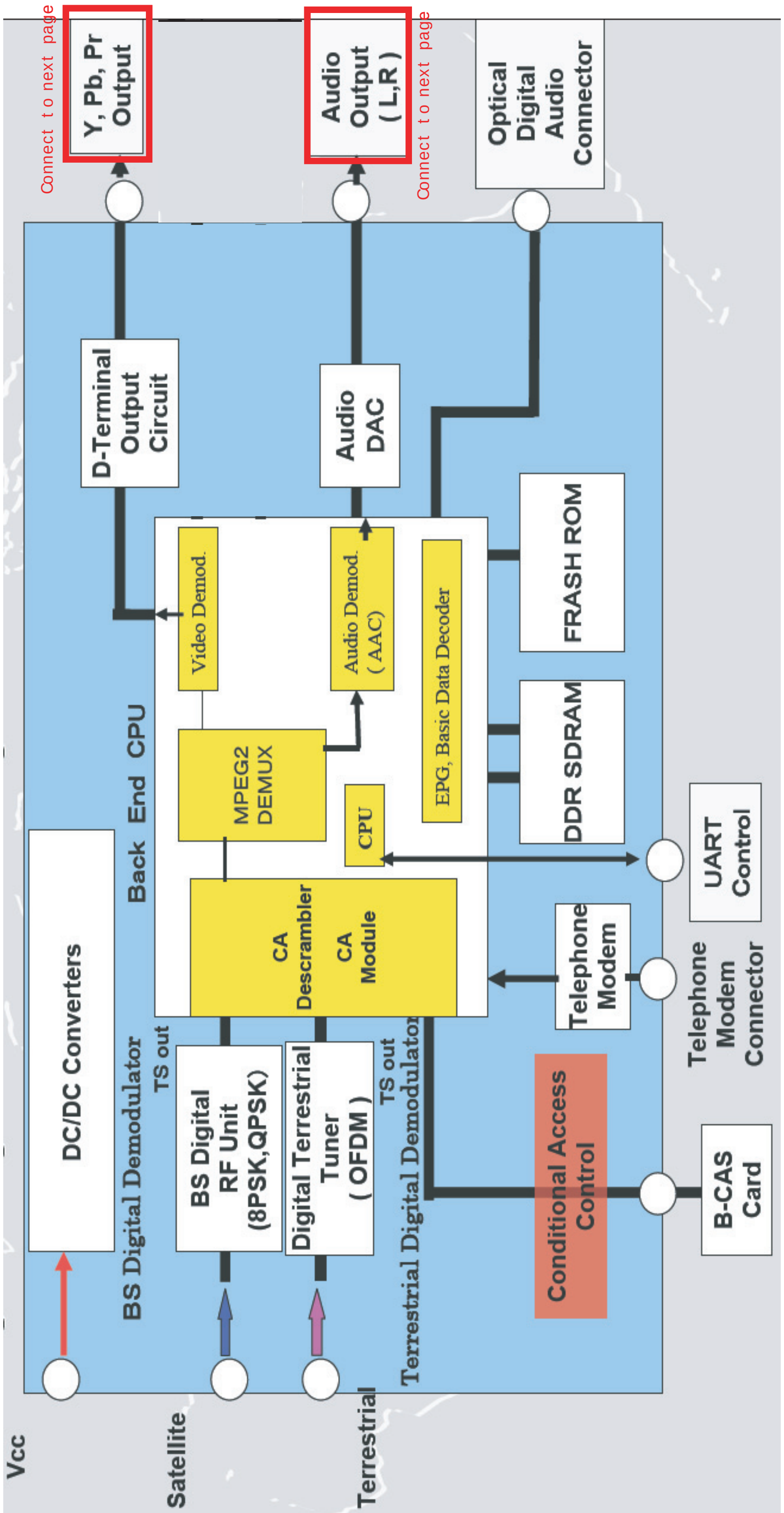
Wiring Part List

No.	Part No.
1	EAD38599102
2	6631900012C
3	6631T25023R
4	EAD38598801
5	EAD39309201
6	EAD38598901
7	6631T20033C
8	EAD38599001
9	6631900048B
10	6631900013B
11	EAD38509801
12	6631T25026L
13	6631T20010F

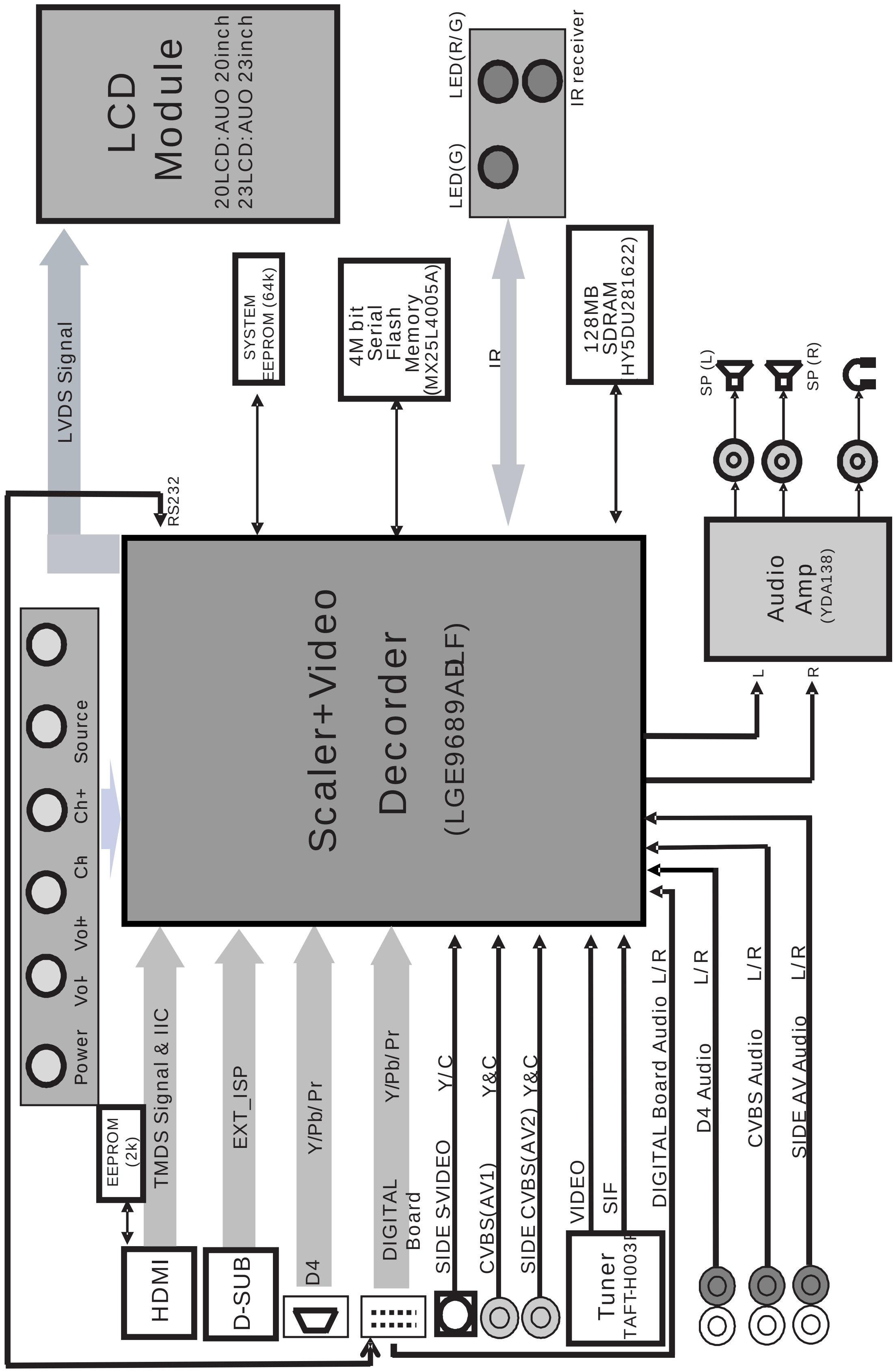


BLOCK DIAGRAM

1. Digital

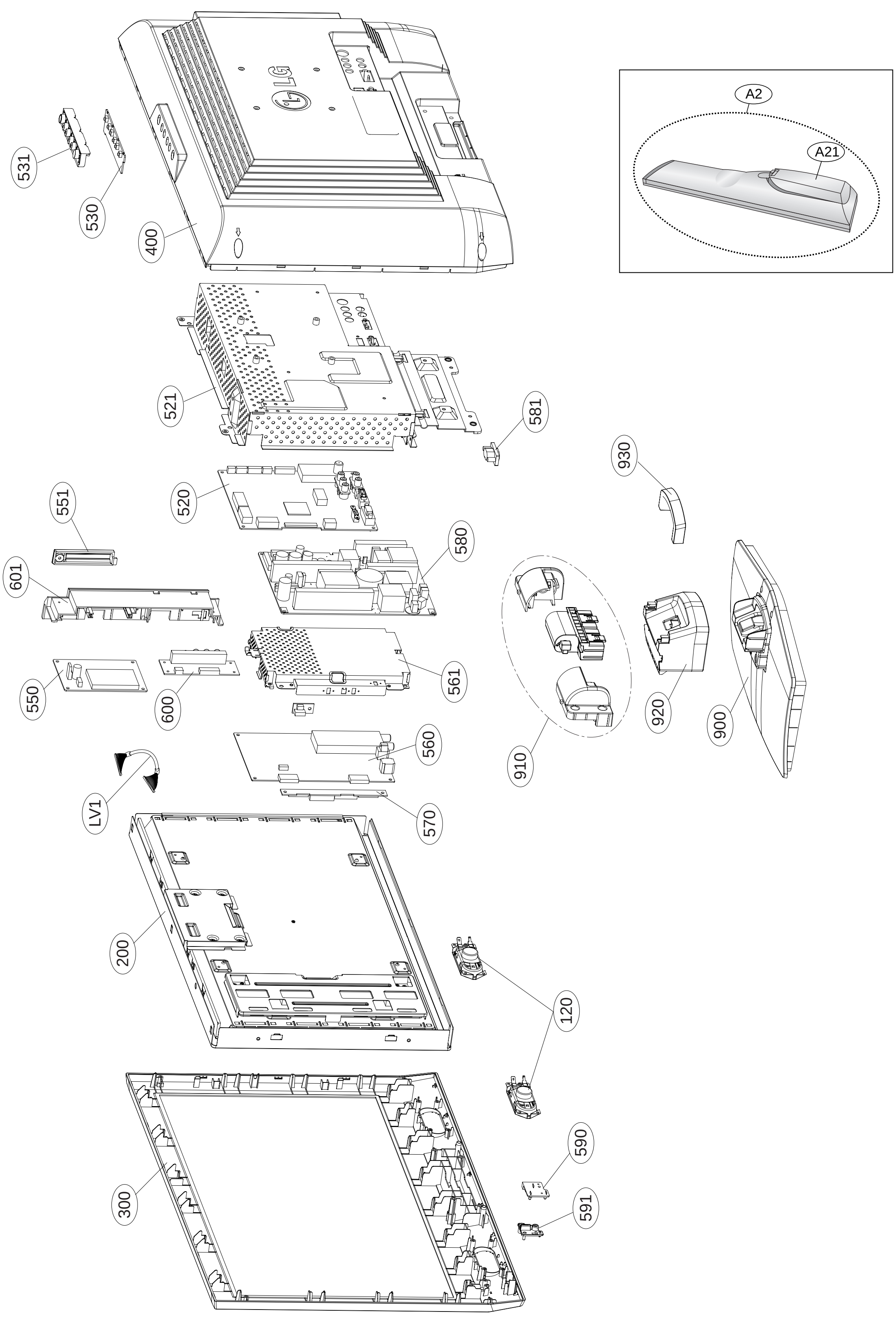


2. Analog



LCD
Module
20LCD:AUO 20inch
23LCD:AUO 23inch
LED(G)
LED(R/G)
IR receiver
LVDS Signal
SYSTEM
EEPROM (64k)
4M bit
Serial
Flash
Memory
(MX25L4005A)
IR
128MB
SDRAM
HY5DU281622)
SP (L)
SP (R)
RS232
Scaler+Video
Decorder
(LGE9689ALF)
Audio
Amp
(YDA138)
L
R
Power
Vol-
Vol+
Ch
Ch+
Source
EEPROM
(2k)
TMDS Signal & IIC
EXT_ISP
Y/Pb/Pr
Y/Pb/ Pr
Y/C
Y&C
Y&C
DIGITAL Board Audio L/R
D4 Audio L/R
CVBS Audio L/R
SIDE AV Audio L/R
HDMI
D-SUB
D4
DIGITAL
Board
SIDE SVIDEO
CVBS(AV1)
SIDE CVBS(AV2)
VIDEO
SIF
Tuner
TAFT-H003F

EXPLODED VIEW



EXPLODED VIEW PARTS LIST

No.	PART NO.		DESCRIPTION
120		EAB35995501	Speaker,Full Range A11 EN1227C-6710 3W 8OHM 80DB 300HZ 31 X 78.5 X 21 LUG KOREA TOPTONE
200	⚠	6304FAU027A	LCD,Module-TFT T200XW02-V0 TN,450NITS,600 BY 1,8MS,ROHS,3H,AG AU OPTRONICS CORP
300	⚠	ABJ33891301	Cabinet Assembly 20LS7D-JA LJ71A 20” 20LS7D-JA Cabinet Ass’y
400	⚠	ACQ33891401	Cover Assembly,Rear 20LS7D-JA LJ71A 20” 20LS7D-JA Back cover Ass’y
520		EBU38647501	Main Total Assembly 20LS7D-JA BRAND LJ71A
521		ADV33211402	Frame Assembly 20LS7D-JA LJ71A 20” METAL MAIN SHIELD ASSY
530		EBR38656501	PCB Assembly,Sub SUB T.T LJ71A 20LS7D-JA AJLWLAX CONTROL
531		MEY38698401	Knob“MOLD ABS HF-350U MAIN/SMPS 6 20LS7D-JA 20” Control knob(JAPAN)
550		EBR36653601	Hand Insert PCB Assembly,Sub SUB M.I LJ71A H2XLCD-H5JK AJPWLAX B-CAS
551		MCK38699101	Cover MOLD HIPS 51SF 20LS7D-JA HIPS 51SF 20” Cover,B_CAS(JAPAN)
560		EBR36698501	PCB Assembly,MPEG MDB2-J05 SUB T.T MPEG BOARD FOR JAPAN MITSUMI
561		MGJ37787201	Plate,Shield PRESS SPTE 0.6T SHIELD SPTE HLS METAL, D-BOARD SHIELD
570		EBR37252602	Hand Insert PCB Assembly,Sub M.I LJ71A INTERFACE_1 and INTERFACE_2
580	⚠	EAY33982302	Power Supply Assembly YP20106DTV_JAPAN FREE 196*196 YUYANG TELECOM CO.,LTD
581		EAD38599102	Drawing,Assembly switch socket Assy UL1015AWG22 6600F00001D(SDDJE11600)
590		EBR38656001	PCB Assembly,Sub SUB T.T LJ71A 2XLS7D-JA AJLWLAX IR/LED
591		MES38698301	Indicator MOLD PMMA HI-855M LED 20/23LS7D-JA PMMA 8 PHY IR LENS(JAPAN)
600		EBR36651102	Hand Insert PCB Assembly,Sub SUB M.I LJ71A 2xLS7D-JA AJLWLAX SIDE_AV
601		ABA34844001	Bracket Assembly BRACKET 20/23LS7D-JA LJ71A BRACKET, B-CAS & SIDE AV ASS’Y(JAPAN)
900	⚠	AAN32620401	Base Assembly BASE 20LS7D LA74E BASE ASSY 20”
910		ABA33891701	Bracket Assembly HINGE 20/23LS7D-JA LJ71A 20/23LS7D-JA Hinge body ass’y
920		MCK36500501	Cover,Rear MOLD ABS 380 19LS4R ABS, HF-380 19LS4R STAND BODY COVER
930		MCK30233401	Cover MOLD HIPS 51SF LS1R HIPS 51SF LS1R-holder cable management
A2		AKB33871402	Remote Controller Assembly 20/23LS7D-JA, JP D-TV, LJ71A
A21		MCK36759201	Cover MOLD ABS HF-380 MKJ339814 ABS, HF-380 TX BATTERY COVER
LV1		EAD39309201	Harness,Single 12507HS FI-X30HL 12507HS-30 FI-X30HL 300MM 0.5MM 30P UL20276

REPLACEMENT PARTS LIST

DATE: 2007. 08. 06.

LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
	CAPACITORs	
C1	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R -55TO+125C
C100	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R -55TO+125C
C1000	0CE227WF6DC	MVK8.0TP16VC220M 220uF 20% 16V 80MA -40TO+1
C1003	0CK105DH56A	C2012X7R105KFT 1uF 10% 25V X7R -55TO+125C 2
C1004	0CE107WJ6DC	MVK10TP35VC100M 100uF 20% 35V 310MA -40TO+1
C1006	0CE337WJ6D8	MVK12.5TP35VC330M 330uF 20% 35V 480MA -40TO
C1007	0CE477EJ618	KMG5.0TP35VB470M 470uF 20% 35V 547MA -55TO+
C1009	0CK105DH56A	C2012X7R105KFT 1uF 10% 25V X7R -55TO+125C 2
C101	0CC200CK41A	C1608C0G1H200JT 20pF 5% 50V C0G -55TO+125C
C1010	0CK474DH56A	C2012X7R1E474KT 470nF 10% 25V X7R -55TO+125
C1012	0CE1072H638	WL1E107M6L011PA 100uF 20% 25V 280MA -40TO+1
C1013	0CE1072H638	WL1E107M6L011PA 100uF 20% 25V 280MA -40TO+1
C1016	0CK103CK56A	0603B103K500CT 10nF 10% 50V X7R -55TO+125C
C1017	0CK105CD56A	C1608X7R1A105KT 1uF 10% 10V X7R -55TO+125C
C1018	0CE227WF6DC	MVK8.0TP16VC220M 220uF 20% 16V 80MA -40TO+1
C1019	0CE1072H638	WL1E107M6L011PA 100uF 20% 25V 280MA -40TO+1
C1020	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R -55TO+125C
C1022	0CE1072H638	WL1E107M6L011PA 100uF 20% 25V 280MA -40TO+1
C1023	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R -55TO+125C
C1025	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R -55TO+125C
C1027	0CK272CK46A	0603B272J500CT 2.7nF 10% 50V X7R -55TO+125C
C1028	0CE1072H638	WL1E107M6L011PA 100uF 20% 25V 280MA -40TO+1
C1029	0CE1072H638	WL1E107M6L011PA 100uF 20% 25V 280MA -40TO+1
C103	0CC200CK41A	C1608C0G1H200JT 20pF 5% 50V C0G -55TO+125C
C1030	0CE1072H638	WL1E107M6L011PA 100uF 20% 25V 280MA -40TO+1
C1031	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R -55TO+125C
C1033	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R -55TO+125C
C1034	0CK226FF67A	EMK325BJ226MM-T 22uF 20% 16V X5R -55TO+85C
C1035	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R -55TO+125C
C1039	0CK225DFK4A	C2012Y5V1C225MT 2.2uF 20% 16V Y5V -30TO+85C
C104	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R -55TO+125C
C1040	0CE227WF6DC	MVK8.0TP16VC220M 220uF 20% 16V 80MA -40TO+1
C1041	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R -55TO+125C
C1042	0CE2262K638	WL1H226M05011PA 22uF 20% 50V 150MA -40TO+10
C105	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R -55TO+125C
C109	0CE106WFKDC	MVK4.0TP16VC10M 10uF 20% 16V 16MA -40TO+105
C110	0CE106WFKDC	MVK4.0TP16VC10M 10uF 20% 16V 16MA -40TO+105
C112	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R -55TO+125C
C114	0CE106WFKDC	MVK4.0TP16VC10M 10uF 20% 16V 16MA -40TO+105
C115	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R -55TO+125C
C116	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R -55TO+125C
C117	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R -55TO+125C
C118	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R -55TO+125C
C119	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R -55TO+125C
C12	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R -55TO+125C
C120	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R -55TO+125C
C121	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R -55TO+125C
C122	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R -55TO+125C
C123	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R -55TO+125C

LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
C124	0CC102CK41A	C1608C0G1H102JT 1nF 5% 50V C0G -55TO+125C 1
C125	0CK473CK56A	C1608X7R1H473KT 47nF 10% 50V X7R -55TO+125C
C126	0CC560CK41A	C1608C0G1H560JT 56pF 5% 50V C0G -55TO+125C
C127	0CC560CK41A	C1608C0G1H560JT 56pF 5% 50V C0G -55TO+125C
C128	0CK473CK56A	C1608X7R1H473KT 47nF 10% 50V X7R -55TO+125C
C129	0CK473CK56A	C1608X7R1H473KT 47nF 10% 50V X7R -55TO+125C
C13	0CE106BF618	ESM106M016T1G5C11G 10uF 20% 16V 45MA -55TO+
C130	0CK473CK56A	C1608X7R1H473KT 47nF 10% 50V X7R -55TO+125C
C131	0CK473CK56A	C1608X7R1H473KT 47nF 10% 50V X7R -55TO+125C
C132	0CK473CK56A	C1608X7R1H473KT 47nF 10% 50V X7R -55TO+125C
C133	0CK473CK56A	C1608X7R1H473KT 47nF 10% 50V X7R -55TO+125C
C134	0CK473CK56A	C1608X7R1H473KT 47nF 10% 50V X7R -55TO+125C
C135	0CK473CK56A	C1608X7R1H473KT 47nF 10% 50V X7R -55TO+125C
C136	0CK473CK56A	C1608X7R1H473KT 47nF 10% 50V X7R -55TO+125C
C137	0CK473CK56A	C1608X7R1H473KT 47nF 10% 50V X7R -55TO+125C
C138	0CK473CK56A	C1608X7R1H473KT 47nF 10% 50V X7R -55TO+125C
C139	0CK473CK56A	C1608X7R1H473KT 47nF 10% 50V X7R -55TO+125C
C140	0CK473CK56A	C1608X7R1H473KT 47nF 10% 50V X7R -55TO+125C
C141	0CK473CK56A	C1608X7R1H473KT 47nF 10% 50V X7R -55TO+125C
C142	0CK473CK56A	C1608X7R1H473KT 47nF 10% 50V X7R -55TO+125C
C143	0CC102CK41A	C1608C0G1H102JT 1nF 5% 50V C0G -55TO+125C 1
C144	0CK473CK56A	C1608X7R1H473KT 47nF 10% 50V X7R -55TO+125C
C145	0CK473CK56A	C1608X7R1H473KT 47nF 10% 50V X7R -55TO+125C
C146	0CK473CK56A	C1608X7R1H473KT 47nF 10% 50V X7R -55TO+125C
C147	0CK473CK56A	C1608X7R1H473KT 47nF 10% 50V X7R -55TO+125C
C148	0CK473CK56A	C1608X7R1H473KT 47nF 10% 50V X7R -55TO+125C
C149	0CK473CK56A	C1608X7R1H473KT 47nF 10% 50V X7R -55TO+125C
C150	0CK473CK56A	C1608X7R1H473KT 47nF 10% 50V X7R -55TO+125C
C152	0CK473CK56A	C1608X7R1H473KT 47nF 10% 50V X7R -55TO+125C
C153	0CK473CK56A	C1608X7R1H473KT 47nF 10% 50V X7R -55TO+125C
C154	0CK473CK56A	C1608X7R1H473KT 47nF 10% 50V X7R -55TO+125C
C155	0CK473CK56A	C1608X7R1H473KT 47nF 10% 50V X7R -55TO+125C
C156	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R -55TO+125C
C157	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R -55TO+125C
C158	0CE106WFKDC	MVK4.0TP16VC10M 10uF 20% 16V 16MA -40TO+105
C159	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R -55TO+125C
C160	0CK475CC94A	C1608Y5V0J475ZT 4.7uF -20TO+80% 6.3V Y5V -3
C161	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R -55TO+125C
C162	0CK105CD56A	C1608X7R1A105KT 1uF 10% 10V X7R -55TO+125C
C163	0CK225DFK4A	C2012Y5V1C225MT 2.2uF 20% 16V Y5V -30TO+85C
C164	0CK225DFK4A	C2012Y5V1C225MT 2.2uF 20% 16V Y5V -30TO+85C
C165	0CK225DFK4A	C2012Y5V1C225MT 2.2uF 20% 16V Y5V -30TO+85C
C166	0CK225DFK4A	C2012Y5V1C225MT 2.2uF 20% 16V Y5V -30TO+85C
C167	0CK225DFK4A	C2012Y5V1C225MT 2.2uF 20% 16V Y5V -30TO+85C
C168	0CK225DFK4A	C2012Y5V1C225MT 2.2uF 20% 16V Y5V -30TO+85C
C169	0CK225DFK4A	C2012Y5V1C225MT 2.2uF 20% 16V Y5V -30TO+85C
C170	0CK225DFK4A	C2012Y5V1C225MT 2.2uF 20% 16V Y5V -30TO+85C
C171	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R -55TO+125C
C172	0CK225DFK4A	C2012Y5V1C225MT 2.2uF 20% 16V Y5V -30TO+85C
C175	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R -55TO+125C

LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
C176	0CK103CK56A	0603B103K500CT 10nF 10% 50V X7R -55TO+125C	C406	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R -55TO+125C
C177	0CK103CK56A	0603B103K500CT 10nF 10% 50V X7R -55TO+125C	C407	0CC102CK41A	C1608C0G1H102JT 1nF 5% 50V C0G -55TO+125C 1
C178	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R -55TO+125C	C408	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R -55TO+125C
C179	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R -55TO+125C	C409	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R -55TO+125C
C180	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R -55TO+125C	C5	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R -55TO+125C
C181	0CE106BF618	ESM106M016T1G5C11G 10uF 20% 16V 45MA -55TO+	C500	0CK225DH94A	C2012Y5V225ZFT 2.2uF -20TO+80% 25V Y5V -30T
C182	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R -55TO+125C	C5000	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R -55TO+125C
C183	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R -55TO+125C	C5001	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R -55TO+125C
C184	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R -55TO+125C	C5002	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R -55TO+125C
C185	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R -55TO+125C	C501	0CE476WK6DC	MVK8.0TP50VC47M 47uF 20% 50V 170MA -40TO+10
C186	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R -55TO+125C	C502	0CK103CK56A	0603B103K500CT 10nF 10% 50V X7R -55TO+125C
C187	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R -55TO+125C	C503	0CK474DK56A	UMK212BJ474KG-T 470nF 10% 50V X7R -40TO+105
C188	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R -55TO+125C	C504	0CK103CK56A	0603B103K500CT 10nF 10% 50V X7R -55TO+125C
C189	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R -55TO+125C	C505	0CE1072H638	WL1E107M6L011PA 100uF 20% 25V 280MA -40TO+1
C190	0CC102CK41A	C1608C0G1H102JT 1nF 5% 50V C0G -55TO+125C 1	C506	0CK105CD56A	C1608X7R1A105KT 1uF 10% 10V X7R -55TO+125C
C191	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R -55TO+125C	C507	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R -55TO+125C
C192	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R -55TO+125C	C508	0CK475EF56A	C3216X7R1C475KT 4.7uF 10% 16V X7R -55TO+125
C193	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R -55TO+125C	C509	0CK105CD56A	C1608X7R1A105KT 1uF 10% 10V X7R -55TO+125C
C194	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R -55TO+125C	C510	0CE337WH6DC	MVK10TP25VC330M 330uF 20% 25V 450MA -40TO+1
C195	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R -55TO+125C	C511	0CK475EF56A	C3216X7R1C475KT 4.7uF 10% 16V X7R -55TO+125
C196	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R -55TO+125C	C512	0CC102CK41A	C1608C0G1H102JT 1nF 5% 50V C0G -55TO+125C 1
C197	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R -55TO+125C	C513	0CC102CK41A	C1608C0G1H102JT 1nF 5% 50V C0G -55TO+125C 1
C198	0CE106BF618	ESM106M016T1G5C11G 10uF 20% 16V 45MA -55TO+	C514	0CC102CK41A	C1608C0G1H102JT 1nF 5% 50V C0G -55TO+125C 1
C200	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R -55TO+125C	C515	0CC102CK41A	C1608C0G1H102JT 1nF 5% 50V C0G -55TO+125C 1
C201	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R -55TO+125C	C516	0CK105CD56A	C1608X7R1A105KT 1uF 10% 10V X7R -55TO+125C
C202	0CK473CK56A	C1608X7R1H473KT 47nF 10% 50V X7R -55TO+125C	C517	0CE337WH6DC	MVK10TP25VC330M 330uF 20% 25V 450MA -40TO+1
C3	0CE106BF618	ESM106M016T1G5C11G 10uF 20% 16V 45MA -55TO+	C518	0CK475EF56A	C3216X7R1C475KT 4.7uF 10% 16V X7R -55TO+125
C3000	0CC331CK41A	C1608C0G1H331JT 330pF 5% 50V C0G -55TO+125C	C519	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R -55TO+125C
C3001	0CC331CK41A	C1608C0G1H331JT 330pF 5% 50V C0G -55TO+125C	C520	0CK475EF56A	C3216X7R1C475KT 4.7uF 10% 16V X7R -55TO+125
C3002	0CK103CK56A	0603B103K500CT 10nF 10% 50V X7R -55TO+125C	C521	0CE106BF618	ESM106M016T1G5C11G 10uF 20% 16V 45MA -55TO+
C3003	0CK103CK56A	0603B103K500CT 10nF 10% 50V X7R -55TO+125C	C522	0CK105CD56A	C1608X7R1A105KT 1uF 10% 10V X7R -55TO+125C
C3005	0CC331CK41A	C1608C0G1H331JT 330pF 5% 50V C0G -55TO+125C	C523	0CK105CD56A	C1608X7R1A105KT 1uF 10% 10V X7R -55TO+125C
C3006	0CC561CK41A	C1608C0G1H561JT 560pF 5% 50V C0G -55TO+125C	C524	0CK105CD56A	C1608X7R1A105KT 1uF 10% 10V X7R -55TO+125C
C3007	0CC561CK41A	C1608C0G1H561JT 560pF 5% 50V C0G -55TO+125C	C525	0CK474DK56A	UMK212BJ474KG-T 470nF 10% 50V X7R -40TO+105
C3009	0CC331CK41A	C1608C0G1H331JT 330pF 5% 50V C0G -55TO+125C	C526	0CK103CK56A	0603B103K500CT 10nF 10% 50V X7R -55TO+125C
C303	0CK102CK56A	0603B102K500CT 1nF 10% 50V X7R -55TO+125C 1	C527	0CK103CK56A	0603B103K500CT 10nF 10% 50V X7R -55TO+125C
C304	0CE227EH638	KMG5.0TP25VB220M 220uF 20% 25V 277MA -55TO+	C6	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R -55TO+125C
C305	0CK105DH56A	C2012X7R105KFT 1uF 10% 25V X7R -55TO+125C 2	C600	0CK103CK56A	0603B103K500CT 10nF 10% 50V X7R -55TO+125C
C306	0CC102CK41A	C1608C0G1H102JT 1nF 5% 50V C0G -55TO+125C 1	C602	0CK103CK56A	0603B103K500CT 10nF 10% 50V X7R -55TO+125C
C307	0CC101CK41A	C1608C0G1H101JT 100pF 5% 50V C0G -55TO+125C	C605	0CE107WF6DC	MVK6.3TP16VC100M 100uF 20% 16V 110MA -40TO+
C308	0CC101CK41A	C1608C0G1H101JT 100pF 5% 50V C0G -55TO+125C	C7	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R -55TO+125C
C310	0CC101CK41A	C1608C0G1H101JT 100pF 5% 50V C0G -55TO+125C	C702	0CC331CK41A	C1608C0G1H331JT 330pF 5% 50V C0G -55TO+125C
C311	0CC101CK41A	C1608C0G1H101JT 100pF 5% 50V C0G -55TO+125C	C703	0CC331CK41A	C1608C0G1H331JT 330pF 5% 50V C0G -55TO+125C
C312	0CC101CK41A	C1608C0G1H101JT 100pF 5% 50V C0G -55TO+125C	C705	0CC561CK41A	C1608C0G1H561JT 560pF 5% 50V C0G -55TO+125C
C313	0CC101CK41A	C1608C0G1H101JT 100pF 5% 50V C0G -55TO+125C	C706	0CC561CK41A	C1608C0G1H561JT 560pF 5% 50V C0G -55TO+125C
C314	0CC470CK41A	C1608C0G1H470JT 47pF 5% 50V C0G -55TO+125C	C708	0CC331CK41A	C1608C0G1H331JT 330pF 5% 50V C0G -55TO+125C
C4	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R -55TO+125C	C709	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R -55TO+125C
C400	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R -55TO+125C	C710	0CK475DD56A	C2012X7R1A475KT 4.7uF 10% 10V X7R -55TO+125
C4000	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R -55TO+125C	C8	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R -55TO+125C
C4001	0CC470CK41A	C1608C0G1H470JT 47pF 5% 50V C0G -55TO+125C	C800	0CC102CK41A	C1608C0G1H102JT 1nF 5% 50V C0G -55TO+125C 1
C401	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R -55TO+125C	C801	0CC102CK41A	C1608C0G1H102JT 1nF 5% 50V C0G -55TO+125C 1
C402	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R -55TO+125C	C901	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R -55TO+125C
C403	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R -55TO+125C	C910	0CK103CK56A	0603B103K500CT 10nF 10% 50V X7R -55TO+125C
C404	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R -55TO+125C			
C405	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R -55TO+125C			

LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
	DIODEs	
D1	0DSON00138A	MMBD301LT1G 600MV 30V - - 1.5pF 200MW SOT23
D100	0DS181009AA	KDS181 1.2V 85V 300MA 2A 4NSEC 150MW SOT23
D1000	0DS181009AA	KDS181 1.2V 85V 300MA 2A 4NSEC 150MW SOT23
D1002	0DR340009AA	MBRS340 525MV 40V 4A 0SEC 0F 0W DO214 R/TP
D1003	0DR140059DA	1N4005TB52 600V 1V 5UA 30A - DO41 TP 2P 1
D1004	0DR140059DA	1N4005TB52 600V 1V 5UA 30A - DO41 TP 2P 1
D101	0DS181009AA	KDS181 1.2V 85V 300MA 2A 4NSEC 150MW SOT23
D500	0DS181009AA	KDS181 1.2V 85V 300MA 2A 4NSEC 150MW SOT23
D501	0DS181009AA	KDS181 1.2V 85V 300MA 2A 4NSEC 150MW SOT23
D502	0DS181009AA	KDS181 1.2V 85V 300MA 2A 4NSEC 150MW SOT23
D503	0DD184009AA	KDS184 KDS184 TP KEC - 85V - - - 300MA KEC
D700	0DSON00138A	MMBD301LT1G 600MV 30V - - 1.5pF 200MW SOT23
D701	0DD184009AA	KDS184 KDS184 TP KEC - 85V - - - 300MA KEC
ZD1	0DZ120009CF	UDZ 12B 12V 11.74TO12.24V 30OHM 200MW SOD32
ZD3000	0DZ560009DA	UDZS5.6B 5.6V 5.49TO5.73V 60OHM 200MW SOD32
ZD3001	0DZ560009DA	UDZS5.6B 5.6V 5.49TO5.73V 60OHM 200MW SOD32
ZD3002	0DZ560009DA	UDZS5.6B 5.6V 5.49TO5.73V 60OHM 200MW SOD32
ZD3003	0DZ560009DA	UDZS5.6B 5.6V 5.49TO5.73V 60OHM 200MW SOD32
ZD3005	0DZ560009DA	UDZS5.6B 5.6V 5.49TO5.73V 60OHM 200MW SOD32
ZD3006	0DZ560009DA	UDZS5.6B 5.6V 5.49TO5.73V 60OHM 200MW SOD32
ZD3007	0DZ560009DA	UDZS5.6B 5.6V 5.49TO5.73V 60OHM 200MW SOD32
ZD3008	0DZ560009DA	UDZS5.6B 5.6V 5.49TO5.73V 60OHM 200MW SOD32
ZD3009	0DZ560009DA	UDZS5.6B 5.6V 5.49TO5.73V 60OHM 200MW SOD32
ZD3010	0DZ560009DA	UDZS5.6B 5.6V 5.49TO5.73V 60OHM 200MW SOD32
ZD3011	0DZ560009DA	UDZS5.6B 5.6V 5.49TO5.73V 60OHM 200MW SOD32
ZD4000	0DZ560009DA	UDZS5.6B 5.6V 5.49TO5.73V 60OHM 200MW SOD32
ZD4001	0DZ560009DA	UDZS5.6B 5.6V 5.49TO5.73V 60OHM 200MW SOD32
ZD4002	0DZ560009DA	UDZS5.6B 5.6V 5.49TO5.73V 60OHM 200MW SOD32
ZD4003	0DZ560009DA	UDZS5.6B 5.6V 5.49TO5.73V 60OHM 200MW SOD32
ZD4004	0DZ560009DA	UDZS5.6B 5.6V 5.49TO5.73V 60OHM 200MW SOD32
ZD5000	0DZ560009DA	UDZS5.6B 5.6V 5.49TO5.73V 60OHM 200MW SOD32
ZD5001	0DZ560009DA	UDZS5.6B 5.6V 5.49TO5.73V 60OHM 200MW SOD32
ZD5002	0DZ560009DA	UDZS5.6B 5.6V 5.49TO5.73V 60OHM 200MW SOD32
ZD700	0DZ560009DA	UDZS5.6B 5.6V 5.49TO5.73V 60OHM 200MW SOD32
ZD701	0DZ560009DA	UDZS5.6B 5.6V 5.49TO5.73V 60OHM 200MW SOD32
ZD702	0DZ560009DA	UDZS5.6B 5.6V 5.49TO5.73V 60OHM 200MW SOD32
ZD703	0DZ560009DA	UDZS5.6B 5.6V 5.49TO5.73V 60OHM 200MW SOD32
ZD704	0DZ560009DA	UDZS5.6B 5.6V 5.49TO5.73V 60OHM 200MW SOD32
ZD800	0DZ560009DA	UDZS5.6B 5.6V 5.49TO5.73V 60OHM 200MW SOD32
ZD801	0DZ560009DA	UDZS5.6B 5.6V 5.49TO5.73V 60OHM 200MW SOD32
ZD802	0DZ560009DA	UDZS5.6B 5.6V 5.49TO5.73V 60OHM 200MW SOD32
ZD803	0DZ560009DA	UDZS5.6B 5.6V 5.49TO5.73V 60OHM 200MW SOD32
ZD804	0DZ560009DA	UDZS5.6B 5.6V 5.49TO5.73V 60OHM 200MW SOD32
ZD805	0DZ560009DA	UDZS5.6B 5.6V 5.49TO5.73V 60OHM 200MW SOD32
ZD806	0DZ560009DA	UDZS5.6B 5.6V 5.49TO5.73V 60OHM 200MW SOD32
ZD807	0DZ560009DA	UDZS5.6B 5.6V 5.49TO5.73V 60OHM 200MW SOD32
ZD808	0DZ560009DA	UDZS5.6B 5.6V 5.49TO5.73V 60OHM 200MW SOD32
ZD901	0DZ560009GB	BZT52C5V6S-(F) 5.6V 5.2TO6V 40OHM 200MW SOD
ZD906	0DZ560009GB	BZT52C5V6S-(F) 5.6V 5.2TO6V 40OHM 200MW SOD
ZD908	0DZ560009GB	BZT52C5V6S-(F) 5.6V 5.2TO6V 40OHM 200MW SOD
ZD909	0DZ560009GB	BZT52C5V6S-(F) 5.6V 5.2TO6V 40OHM 200MW SOD

LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
	ICs	
IC1	0IPRPPH024A	TDA8024T 2.7TO6.5V 1.5mA 2.2TO3.2MHZ SO R/T
IC100	EAN33715803	LGE9689AD-LF 300MVTO3.6V,300MVTO2.75V,300MV
IC1000	0IMCRKE006B	KIA278R33PI 4TO10V 3.3V 1.5W TO200IS ST 4P
IC1002	0IPMG00107A	AZ1117H-2.5TR/E1 15V 2.5V 0W SOT223 R/TP 3P
IC1003	0IPMGRH001G	BA33BC0FP-E2 4.3TO16V 3.3V 1.2W TO252 ST 3P
IC1004	0IPMG78346A	AZ1085S-ADJTR/E1 12V - - TO263 R/TP 3P ADV
IC1005	0ISS780500H	KA78M05RTM 7TO20V 5V - DPAK R/TP 3P FAIRCH
IC1006	0IMCRMZ001A	MP1583DN-Z,LF 4.75TO23V 21V 0W SOIC R/TP 8P
IC103	0IMMRAL026C	AT24C64AN-10SU-2.7 64KBIT 8192x8bit 2.7VTO5
IC400	EAN32205201	HY5DU281622FTP-5 128MBIT 8 x 16bit 2.3VTO2.
IC500	EAN33643401	YDA138-EZ(D-3) 9TO13.5V 7mV 0.02% 10W 1.45W
IC701	0IMMR00014A	M24C02-RMN6TP 2KBIT 256X8BIT 1.8VTO5.5V 10M
IC901	0ISTL00031A	MC74HC4066ADR2G MC74HC4066ADR2G,LF ON SEMI
	TRANSISTORs & FETs	
Q1001	0TR387500AA	2SC3875S(ALY) NPN 5V 60V 50V 150MA 100NA 70
Q1002	0TR387500AA	2SC3875S(ALY) NPN 5V 60V 50V 150MA 100NA 70
Q1003	0TR387500AA	2SC3875S(ALY) NPN 5V 60V 50V 150MA 100NA 70
Q1005	EBK32753101	SI4925BDY P-CHANNEL MOSFET -30V +-20 -7.1A
Q302	0TR387500AA	2SC3875S(ALY) NPN 5V 60V 50V 150MA 100NA 70
Q304	0TR390609FA	KST3906-MTF PNP -5V -40V -40V -0.2A -0.0000
Q305	0TR390609FA	KST3906-MTF PNP -5V -40V -40V -0.2A -0.0000
Q306	0TR390609FA	KST3906-MTF PNP -5V -40V -40V -0.2A -0.0000
Q307	0TR390609FA	KST3906-MTF PNP -5V -40V -40V -0.2A -0.0000
Q308	0TFVI80067A	SI3865BDV(E3) N-CHANNEL MOSFET 8V +-8V 2.9A
Q500	0TR150400BA	2SA1504S(ASY) PNP -5V -50V -50V -0.15A -0.0
Q501	0TR387500AA	2SC3875S(ALY) NPN 5V 60V 50V 150MA 100NA 70
Q602	0TR387500AA	2SC3875S(ALY) NPN 5V 60V 50V 150MA 100NA 70
Q603	0TR150400BA	2SA1504S(ASY) PNP -5V -50V -50V -0.15A -0.0
Q604	0TR150400BA	2SA1504S(ASY) PNP -5V -50V -50V -0.15A -0.0
Q700	0TR387500AA	2SC3875S(ALY) NPN 5V 60V 50V 150MA 100NA 70
Q900	0TR390409AE	KST3904 NPN 6V 60V 40V 200MA 50NA 100TO300
	RESISTORs	
R1	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10W 1608 R/TP ROH
R10	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 1608 R/TP ROHM
R1001	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 1608 R/TP ROH
R1002	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 1608 R/TP ROHM
R1005	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W 1608 R/TP ROHM
R1006	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 1608 R/TP ROHM
R1011	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10W 1608 R/TP ROH
R1013	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/10W 1608 R/TP PLS
R1014	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10W 1608 R/TP ROH
R1015	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W 1608 R/TP ROHM
R1018	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W 1608 R/TP ROHM
R1019	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10W 1608 R/TP ROH
R102	0RJ1004D477	MCR03EZPF105 1MOHM 1% 1/10W 1608 R/TP ROHM
R1020	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2012 R/TP ROHM
R1022	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10W 1608 R/TP ROH
R1023	0RJ2202D677	MCR03EZPJ223 22KOHM 5% 1/10W 1608 R/TP ROH
R1028	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10W 1608 R/TP ROH

LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
R1029	0RJ6801D477	MCR03EZPF682 6.8KOHM 1% 1/10W 1608 R/TP RO
R1031	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 1608 R/TP ROHM
R1032	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2012 R/TP ROHM
R1034	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10W 1608 R/TP ROH
R1036	0RJ2702D477	MCR03EZPF273 27KOHM 1% 1/10W 1608 R/TP
R1037	0RX0332K607	RSD02T3J33R0 33OHM 5% 2W 12.0X4.0MM - AXIAL
R1038	0RX0332K607	RSD02T3J33R0 33OHM 5% 2W 12.0X4.0MM - AXIAL
R1039	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 1608 R/TP ROHM
R1040	0RJ1500D477	MCR03EZPF151 150OHM 1% 1/10W 1608 R/TP ROH
R1041	0RJ0752D477	MCR03EZPF750 75OHM 1% 1/10W 1608 R/TP ROHM
R105	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 1608 R/TP ROHM
R107	0RJ3302D677	MCR03EZPJ333 33KOHM 5% 1/10W 1608 R/TP ROH
R108	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 1608 R/TP ROH
R109	0RJ4700D677	MCR03EZPJ471 470OHM 5% 1/10W 1608 R/TP ROH
R11	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 1608 R/TP ROHM
R110	0RJ0472D677	MCR03EZPJ470 47OHM 5% 1/10W 1608 R/TP ROHM
R111	0RJ0472D677	MCR03EZPJ470 47OHM 5% 1/10W 1608 R/TP ROHM
R112	0RJ0472D677	MCR03EZPJ470 47OHM 5% 1/10W 1608 R/TP ROHM
R113	0RJ0472D677	MCR03EZPJ470 47OHM 5% 1/10W 1608 R/TP ROHM
R114	0RJ0472D677	MCR03EZPJ470 47OHM 5% 1/10W 1608 R/TP ROHM
R115	0RJ0472D677	MCR03EZPJ470 47OHM 5% 1/10W 1608 R/TP ROHM
R116	0RJ0472D677	MCR03EZPJ470 47OHM 5% 1/10W 1608 R/TP ROHM
R117	0RJ0472D677	MCR03EZPJ470 47OHM 5% 1/10W 1608 R/TP ROHM
R118	0RJ0472D677	MCR03EZPJ470 47OHM 5% 1/10W 1608 R/TP ROHM
R119	0RJ0472D677	MCR03EZPJ470 47OHM 5% 1/10W 1608 R/TP ROHM
R120	0RJ0472D677	MCR03EZPJ470 47OHM 5% 1/10W 1608 R/TP ROHM
R121	0RJ0472D677	MCR03EZPJ470 47OHM 5% 1/10W 1608 R/TP ROHM
R122	0RJ0472D677	MCR03EZPJ470 47OHM 5% 1/10W 1608 R/TP ROHM
R123	0RJ0472D677	MCR03EZPJ470 47OHM 5% 1/10W 1608 R/TP ROHM
R124	0RJ0472D677	MCR03EZPJ470 47OHM 5% 1/10W 1608 R/TP ROHM
R125	0RJ0472D677	MCR03EZPJ470 47OHM 5% 1/10W 1608 R/TP ROHM
R126	0RJ4700D677	MCR03EZPJ471 470OHM 5% 1/10W 1608 R/TP ROH
R127	0RJ0472D677	MCR03EZPJ470 47OHM 5% 1/10W 1608 R/TP ROHM
R128	0RJ0472D677	MCR03EZPJ470 47OHM 5% 1/10W 1608 R/TP ROHM
R129	0RJ0472D677	MCR03EZPJ470 47OHM 5% 1/10W 1608 R/TP ROHM
R13	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 1608 R/TP ROHM
R130	0RJ0472D677	MCR03EZPJ470 47OHM 5% 1/10W 1608 R/TP ROHM
R131	0RJ0472D677	MCR03EZPJ470 47OHM 5% 1/10W 1608 R/TP ROHM
R132	0RJ0472D677	MCR03EZPJ470 47OHM 5% 1/10W 1608 R/TP ROHM
R133	0RJ0472D677	MCR03EZPJ470 47OHM 5% 1/10W 1608 R/TP ROHM
R135	0RJ0472D677	MCR03EZPJ470 47OHM 5% 1/10W 1608 R/TP ROHM
R136	0RJ0472D677	MCR03EZPJ470 47OHM 5% 1/10W 1608 R/TP ROHM
R137	0RJ0472D677	MCR03EZPJ470 47OHM 5% 1/10W 1608 R/TP ROHM
R139	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W 1608 R/TP ROHM
R14	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10W 1608 R/TP ROH
R140	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W 1608 R/TP ROHM
R141	0RJ3900D677	MCR03EZPJ391 390OHM 5% 1/10W 1608 R/TP ROH
R142	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 1608 R/TP ROH
R143	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 1608 R/TP ROHM
R144	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 1608 R/TP ROH
R145	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 1608 R/TP ROH
R147	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 1608 R/TP ROH
R148	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 1608 R/TP ROH
R149	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 1608 R/TP ROHM
R15	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 1608 R/TP ROHM
R150	0RJ0332D677	MCR03EZPJ330 33OHM 5% 1/10W 1608 R/TP ROHM
R152	0RJ0332D677	MCR03EZPJ330 33OHM 5% 1/10W 1608 R/TP ROHM
R159	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 1608 R/TP ROH
R16	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 1608 R/TP ROHM
R160	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 1608 R/TP ROH
R161	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 1608 R/TP ROH
R162	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 1608 R/TP ROH
R164	0RJ2202D677	MCR03EZPJ223 22KOHM 5% 1/10W 1608 R/TP ROH
R165	0RJ2202D677	MCR03EZPJ223 22KOHM 5% 1/10W 1608 R/TP ROH
R166	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10W 1608 R/TP ROH
R171	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W 1608 R/TP ROHM
R172	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 1608 R/TP ROHM
R175	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W 1608 R/TP ROHM
R176	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 1608 R/TP ROH
R177	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 1608 R/TP ROH
R178	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 1608 R/TP ROH
R179	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 1608 R/TP ROH
R180	0RJ0332D677	MCR03EZPJ330 33OHM 5% 1/10W 1608 R/TP ROHM
R181	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10W 1608 R/TP ROH
R182	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10W 1608 R/TP ROH
R183	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 1608 R/TP ROH
R184	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 1608 R/TP ROH
R185	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 1608 R/TP ROH
R186	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 1608 R/TP ROH
R187	0RJ0332D677	MCR03EZPJ330 33OHM 5% 1/10W 1608 R/TP ROHM
R188	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 1608 R/TP ROH
R189	0RJ0332D677	MCR03EZPJ330 33OHM 5% 1/10W 1608 R/TP ROHM
R191	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 1608 R/TP ROH
R192	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 1608 R/TP ROH
R193	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 1608 R/TP ROH
R194	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 1608 R/TP ROH
R199	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 1608 R/TP ROH
R2	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10W 1608 R/TP ROH
R202	0RJ0332D677	MCR03EZPJ330 33OHM 5% 1/10W 1608 R/TP ROHM
R203	0RJ0332D677	MCR03EZPJ330 33OHM 5% 1/10W 1608 R/TP ROHM
R204	0RJ0332D677	MCR03EZPJ330 33OHM 5% 1/10W 1608 R/TP ROHM
R205	0RJ0332D677	MCR03EZPJ330 33OHM 5% 1/10W 1608 R/TP ROHM
R206	0RJ0332D677	MCR03EZPJ330 33OHM 5% 1/10W 1608 R/TP ROHM
R207	0RJ0332D677	MCR03EZPJ330 33OHM 5% 1/10W 1608 R/TP ROHM
R208	0RJ0332D677	MCR03EZPJ330 33OHM 5% 1/10W 1608 R/TP ROHM
R210	0RJ3301D677	MCR03EZPJ332 3.3KOHM 5% 1/10W 1608 R/TP RO
R211	0RJ0332D677	MCR03EZPJ330 33OHM 5% 1/10W 1608 R/TP ROHM
R212	0RJ0332D677	MCR03EZPJ330 33OHM 5% 1/10W 1608 R/TP ROHM
R213	0RJ0332D677	MCR03EZPJ330 33OHM 5% 1/10W 1608 R/TP ROHM
R214	0RJ0332D677	MCR03EZPJ330 33OHM 5% 1/10W 1608 R/TP ROHM
R215	0RJ0332D677	MCR03EZPJ330 33OHM 5% 1/10W 1608 R/TP ROHM
R216	0RJ0332D677	MCR03EZPJ330 33OHM 5% 1/10W 1608 R/TP ROHM
R217	0RJ3301D677	MCR03EZPJ332 3.3KOHM 5% 1/10W 1608 R/TP RO
R218	0RJ3301D677	MCR03EZPJ332 3.3KOHM 5% 1/10W 1608 R/TP RO
R219	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 1608 R/TP ROHM
R220	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 1608 R/TP ROHM
R221	0RJ3301D677	MCR03EZPJ332 3.3KOHM 5% 1/10W 1608 R/TP RO
R222	0RJ3301D677	MCR03EZPJ332 3.3KOHM 5% 1/10W 1608 R/TP RO
R223	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 1608 R/TP ROH
R224	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 1608 R/TP ROH

LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
R226	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10W 1608 R/TP ROH	R321	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/10W 1608 R/TP PLS
R227	0RJ3301D677	MCR03EZPJ332 3.3KOHM 5% 1/10W 1608 R/TP RO	R322	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/10W 1608 R/TP PLS
R228	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10W 1608 R/TP ROH	R323	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/10W 1608 R/TP PLS
R229	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W 1608 R/TP ROHM	R325	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 1608 R/TP ROH
R231	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 1608 R/TP ROH	R326	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 1608 R/TP ROH
R232	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10W 1608 R/TP ROH	R327	0RJ5600D677	MCR03EZPJ561 560OHM 5% 1/10W 1608 R/TP ROH
R235	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/10W 1608 R/TP PLS	R331	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2012 R/TP ROHM
R236	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 1608 R/TP ROH	R333	0RJ2202D677	MCR03EZPJ223 22KOHM 5% 1/10W 1608 R/TP ROH
R238	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 1608 R/TP ROHM	R334	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 1608 R/TP ROH
R239	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/10W 1608 R/TP PLS	R4	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 1608 R/TP ROHM
R242	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/10W 1608 R/TP PLS	R4000	0RJ2202D677	MCR03EZPJ223 22KOHM 5% 1/10W 1608 R/TP ROH
R243	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/10W 1608 R/TP PLS	R4001	0RJ1202D677	MCR03EZPJ123 12KOHM 5% 1/10W 1608 R/TP ROH
R244	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/10W 1608 R/TP PLS	R4002	0RJ1202D677	MCR03EZPJ123 12KOHM 5% 1/10W 1608 R/TP ROH
R245	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W 1608 R/TP ROHM	R4003	0RJ2202D677	MCR03EZPJ223 22KOHM 5% 1/10W 1608 R/TP ROH
R247	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/10W 1608 R/TP PLS	R4004	0RJ1202D677	MCR03EZPJ123 12KOHM 5% 1/10W 1608 R/TP ROH
R248	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/10W 1608 R/TP PLS	R4005	0RJ1202D677	MCR03EZPJ123 12KOHM 5% 1/10W 1608 R/TP ROH
R249	0RJ0472D677	MCR03EZPJ470 47OHM 5% 1/10W 1608 R/TP ROHM	R4006	0RJ2202D677	MCR03EZPJ223 22KOHM 5% 1/10W 1608 R/TP ROH
R250	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10W 1608 R/TP ROH	R4007	0RJ2202D677	MCR03EZPJ223 22KOHM 5% 1/10W 1608 R/TP ROH
R252	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 1608 R/TP ROH	R402	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 1608 R/TP ROH
R253	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 1608 R/TP ROH	R403	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 1608 R/TP ROH
R254	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 1608 R/TP ROH	R404	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W 1608 R/TP ROHM
R255	0RJ3301D677	MCR03EZPJ332 3.3KOHM 5% 1/10W 1608 R/TP RO	R405	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W 1608 R/TP ROHM
R256	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 1608 R/TP ROH	R406	0RJ1500D677	MCR03EZPJ151 150OHM 5% 1/10W 1608 R/TP ROH
R257	0RJ3301D677	MCR03EZPJ332 3.3KOHM 5% 1/10W 1608 R/TP RO	R409	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 1608 R/TP ROH
R260	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 1608 R/TP ROHM	R410	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W 1608 R/TP ROHM
R261	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 1608 R/TP ROH	R411	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 1608 R/TP ROH
R262	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 1608 R/TP ROH	R500	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W 1608 R/TP ROHM
R263	0RJ3301D677	MCR03EZPJ332 3.3KOHM 5% 1/10W 1608 R/TP RO	R5002	0RJ1001D477	MCR03EZPF102 1KOHM 1% 1/10W 1608 R/TP ROHM
R3	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W 1608 R/TP ROHM	R5003	0RJ2201D477	MCR03EZPF222 2.2KOHM 1% 1/10W 1608 R/TP RO
R3000	0RJ0752D677	MCR03EZPJ750 75OHM 5% 1/10W 1608 R/TP ROHM	R5004	0RJ6801D477	MCR03EZPF682 6.8KOHM 1% 1/10W 1608 R/TP RO
R3002	0RJ0752D677	MCR03EZPJ750 75OHM 5% 1/10W 1608 R/TP ROHM	R501	0RJ1003D677	MCR03EZPJ104 100KOHM 5% 1/10W 1608 R/TP RO
R3003	0RJ4703D677	MCR03EZPJ474 470KOHM 5% 1/10W 1608 R/TP RO	R502	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 1608 R/TP ROHM
R3004	0RJ4703D677	MCR03EZPJ474 470KOHM 5% 1/10W 1608 R/TP RO	R504	0RJ1500D677	MCR03EZPJ151 150OHM 5% 1/10W 1608 R/TP ROH
R3005	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 1608 R/TP ROHM	R505	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/10W 1608 R/TP PLS
R3006	0RJ0752D677	MCR03EZPJ750 75OHM 5% 1/10W 1608 R/TP ROHM	R507	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10W 1608 R/TP ROH
R3007	0RJ0752D677	MCR03EZPJ750 75OHM 5% 1/10W 1608 R/TP ROHM	R510	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 1608 R/TP ROH
R3008	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10W 1608 R/TP ROH	R511	0RJ1003D677	MCR03EZPJ104 100KOHM 5% 1/10W 1608 R/TP RO
R3009	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10W 1608 R/TP ROH	R512	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 1608 R/TP ROHM
R3010	0RJ0561D677	MCR03EZPJ5R6 5.6OHM 5% 1/10W 1608 R/TP ROH	R514	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 1608 R/TP ROH
R3011	0RJ0561D677	MCR03EZPJ5R6 5.6OHM 5% 1/10W 1608 R/TP ROH	R515	0RJ1003D677	MCR03EZPJ104 100KOHM 5% 1/10W 1608 R/TP RO
R3012	0RJ1202D677	MCR03EZPJ123 12KOHM 5% 1/10W 1608 R/TP ROH	R517	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W 1608 R/TP ROHM
R3013	0RJ1202D677	MCR03EZPJ123 12KOHM 5% 1/10W 1608 R/TP ROH	R518	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W 1608 R/TP ROHM
R3014	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2012 R/TP ROHM	R519	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 1608 R/TP ROHM
R302	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10W 1608 R/TP ROH	R6	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 1608 R/TP ROHM
R304	0RJ2202D677	MCR03EZPJ223 22KOHM 5% 1/10W 1608 R/TP ROH	R604	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10W 1608 R/TP ROH
R305	0RJ1601E472	MCR10EZHF162 1.6KOHM 1% 1/8W 2012 R/TP	R605	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10W 1608 R/TP ROH
R306	0RJ1601E472	MCR10EZHF162 1.6KOHM 1% 1/8W 2012 R/TP	R608	0RJ4700D677	MCR03EZPJ471 470OHM 5% 1/10W 1608 R/TP ROH
R307	0RJ2202D677	MCR03EZPJ223 22KOHM 5% 1/10W 1608 R/TP ROH	R609	0RJ3300D677	MCR03EZPJ331 330OHM 5% 1/10W 1608 R/TP ROH
R310	0RJ3301D677	MCR03EZPJ332 3.3KOHM 5% 1/10W 1608 R/TP RO	R610	0RJ1500D677	MCR03EZPJ151 150OHM 5% 1/10W 1608 R/TP ROH
R314	0RJ3301D677	MCR03EZPJ332 3.3KOHM 5% 1/10W 1608 R/TP RO	R612	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/10W 1608 R/TP PLS
R316	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/10W 1608 R/TP PLS	R613	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/10W 1608 R/TP PLS
R317	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/10W 1608 R/TP PLS	R614	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 1608 R/TP ROH
R318	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/10W 1608 R/TP PLS	R615	0RJ2700D677	MCR03EZPJ271 270OHM 5% 1/10W 1608 R/TP ROH
R319	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/10W 1608 R/TP PLS	R616	0RJ2700D677	MCR03EZPJ271 270OHM 5% 1/10W 1608 R/TP ROH
R320	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/10W 1608 R/TP PLS	R7	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W 1608 R/TP ROHM

LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
R700	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W 1608 R/TP ROHM
R702	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10W 1608 R/TP ROH
R703	0RJ0752D477	MCR03EZPF750 75OHM 1% 1/10W 1608 R/TP ROHM
R707	0RJ4703D677	MCR03EZPJ474 470KOHM 5% 1/10W 1608 R/TP RO
R708	0RJ4703D677	MCR03EZPJ474 470KOHM 5% 1/10W 1608 R/TP RO
R709	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10W 1608 R/TP ROH
R710	0RJ0752D477	MCR03EZPF750 75OHM 1% 1/10W 1608 R/TP ROHM
R711	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10W 1608 R/TP ROH
R712	0RJ1202D677	MCR03EZPJ123 12KOHM 5% 1/10W 1608 R/TP ROH
R713	0RJ1202D677	MCR03EZPJ123 12KOHM 5% 1/10W 1608 R/TP ROH
R714	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 1608 R/TP ROH
R715	0RJ0102D677	MCR03EZPJ100 10OHM 5% 1/10W 1608 R/TP ROHM
R716	0RJ0102D677	MCR03EZPJ100 10OHM 5% 1/10W 1608 R/TP ROHM
R717	0RJ0102D677	MCR03EZPJ100 10OHM 5% 1/10W 1608 R/TP ROHM
R718	0RJ0102D677	MCR03EZPJ100 10OHM 5% 1/10W 1608 R/TP ROHM
R719	0RJ0102D677	MCR03EZPJ100 10OHM 5% 1/10W 1608 R/TP ROHM
R720	0RJ0102D677	MCR03EZPJ100 10OHM 5% 1/10W 1608 R/TP ROHM
R721	0RJ0102D677	MCR03EZPJ100 10OHM 5% 1/10W 1608 R/TP ROHM
R722	0RJ0102D677	MCR03EZPJ100 10OHM 5% 1/10W 1608 R/TP ROHM
R724	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/10W 1608 R/TP PLS
R725	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/10W 1608 R/TP PLS
R726	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/10W 1608 R/TP PLS
R727	0RJ0332D677	MCR03EZPJ330 33OHM 5% 1/10W 1608 R/TP ROHM
R728	0RJ0332D677	MCR03EZPJ330 33OHM 5% 1/10W 1608 R/TP ROHM
R729	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 1608 R/TP ROH
R800	0RJ0752D477	MCR03EZPF750 75OHM 1% 1/10W 1608 R/TP ROHM
R801	0RJ0752D477	MCR03EZPF750 75OHM 1% 1/10W 1608 R/TP ROHM
R803	0RJ0752D477	MCR03EZPF750 75OHM 1% 1/10W 1608 R/TP ROHM
R804	0RJ4703D677	MCR03EZPJ474 470KOHM 5% 1/10W 1608 R/TP RO
R805	0RJ4703D677	MCR03EZPJ474 470KOHM 5% 1/10W 1608 R/TP RO
R806	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W 1608 R/TP ROHM
R807	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W 1608 R/TP ROHM
R808	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W 1608 R/TP ROHM
R809	0RJ5601D477	MCR03EZPF562 5.6KOHM 1% 1/10W 1608 R/TP RO
R810	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10W 1608 R/TP ROH
R811	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10W 1608 R/TP ROH
R812	0RJ2702D477	MCR03EZPF273 27KOHM 1% 1/10W 1608 R/TP
R813	0RJ1202D677	MCR03EZPJ123 12KOHM 5% 1/10W 1608 R/TP ROH
R814	0RJ1202D677	MCR03EZPJ123 12KOHM 5% 1/10W 1608 R/TP ROH
R904	0RJ1002D477	MCR03EZPF103 10KOHM 1% 1/10W 1608 R/TP ROH
R907	0RJ0472D677	MCR03EZPJ470 47OHM 5% 1/10W 1608 R/TP ROHM
R908	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W 1608 R/TP ROHM
R918	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W 1608 R/TP ROHM
R919	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W 1608 R/TP ROHM
R920	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W 1608 R/TP ROHM
R921	0RJ0752D477	MCR03EZPF750 75OHM 1% 1/10W 1608 R/TP ROHM
R925	0RJ0752D477	MCR03EZPF750 75OHM 1% 1/10W 1608 R/TP ROHM
R932	0RJ0752D477	MCR03EZPF750 75OHM 1% 1/10W 1608 R/TP ROHM
R937	0RJ5601D477	MCR03EZPF562 5.6KOHM 1% 1/10W 1608 R/TP RO
R941	0RJ2702D477	MCR03EZPF273 27KOHM 1% 1/10W 1608 R/TP
R946	0RJ0752D677	MCR03EZPJ750 75OHM 5% 1/10W 1608 R/TP ROHM
R947	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 1608 R/TP ROHM
R948	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 1608 R/TP ROHM
R949	0RJ2702D477	MCR03EZPF273 27KOHM 1% 1/10W 1608 R/TP
R950	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 1608 R/TP ROHM

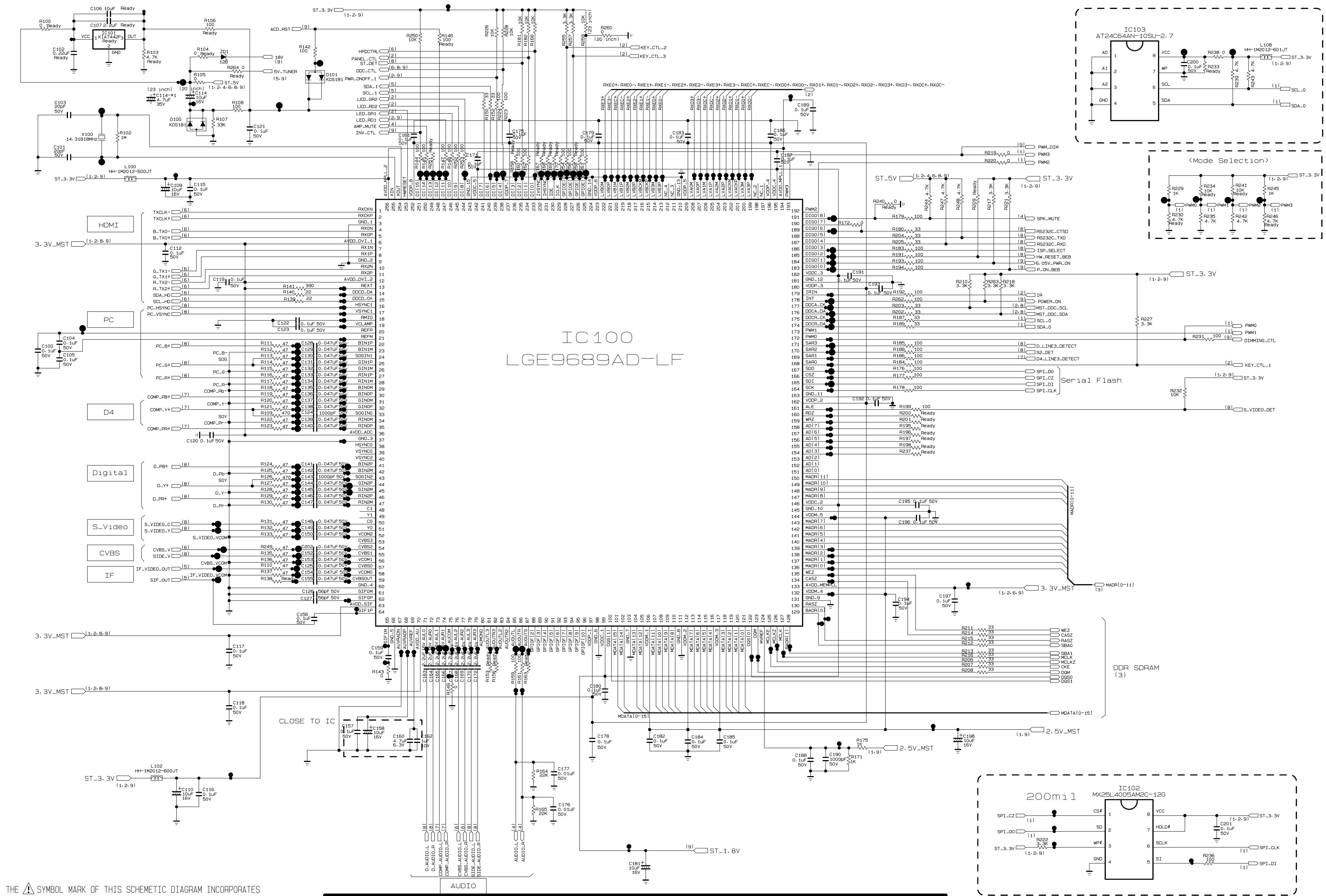
LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
R951	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10W 1608 R/TP ROH
R952	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10W 1608 R/TP ROH
R953	0RJ5601D477	MCR03EZPF562 5.6KOHM 1% 1/10W 1608 R/TP RO
R954	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 1608 R/TP ROHM
R955	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 1608 R/TP ROHM
R956	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 1608 R/TP ROHM
R958	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10W 1608 R/TP ROH
R959	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10W 1608 R/TP ROH
RA400	0RJ1000C687	RCA86TRJ100R 100OHM 5% 1/16W 4 SMD R/TP 8P
RA401	0RJ1000C687	RCA86TRJ100R 100OHM 5% 1/16W 4 SMD R/TP 8P
RA407	0RJ1000C687	RCA86TRJ100R 100OHM 5% 1/16W 4 SMD R/TP 8P
RA408	0RJ1000C687	RCA86TRJ100R 100OHM 5% 1/16W 4 SMD R/TP 8P

COILs & FILTERs & INDUCTORs

LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
L1	6210TCE001A	Filter,Bead HB-1S2012-080JT 8OHM 2X1.25X1MM
L100	6210TCE001Z	Filter,Bead HH-1M2012-600JT 60OHM 2X1.25X1MM
L1000	6210TCE001A	Filter,Bead HB-1S2012-080JT 8OHM 2X1.25X1MM
L1001	6210TCE001A	Filter,Bead HB-1S2012-080JT 8OHM 2X1.25X1MM
L1002	6210TCE001Z	Filter,Bead HH-1M2012-600JT 60OHM 2X1.25X1MM
L1003	6210TCE001Z	Filter,Bead HH-1M2012-600JT 60OHM 2X1.25X1MM
L1005	6140VR0008A	Inductor,Wire Wound,Chip SLF12575T-330M3R2 33UH
L1006	6210TCE001Z	Filter,Bead HH-1M2012-600JT 60OHM 2X1.25X1MM
L1009	6210TCE001Z	Filter,Bead HH-1M2012-600JT 60OHM 2X1.25X1MM
L1011	6210TCE001Z	Filter,Bead HH-1M2012-600JT 60OHM 2X1.25X1MM
L1012	6210TCE001Z	Filter,Bead HH-1M2012-600JT 60OHM 2X1.25X1MM
L1013	6210TCE001Z	Filter,Bead HH-1M2012-600JT 60OHM 2X1.25X1MM
L102	6210TCE001Z	Filter,Bead HH-1M2012-600JT 60OHM 2X1.25X1MM
L108	6200J00005E	Filter,Bead HH-1M2012-601JT 600OHM 2X1.25X1MM
L3000	0LC0233002A	Inductor,Multilayer,Chip FI-B2012-332KJT 3.3UH
L3001	6210TCE001A	Filter,Bead HB-1S2012-080JT 8OHM 2X1.25X1MM
L3002	6210TCE001A	Filter,Bead HB-1S2012-080JT 8OHM 2X1.25X1MM
L3003	6210TCE001A	Filter,Bead HB-1S2012-080JT 8OHM 2X1.25X1MM
L3004	6210TCE001A	Filter,Bead HB-1S2012-080JT 8OHM 2X1.25X1MM
L3006	0LC0233002A	Inductor,Multilayer,Chip FI-B2012-332KJT 3.3UH
L304	6210TCE001Z	Filter,Bead HH-1M2012-600JT 60OHM 2X1.25X1MM
L305	6210TCE001A	Filter,Bead HB-1S2012-080JT 8OHM 2X1.25X1MM
L501	61409B0002A	Coil,Choke DBF-1030A 30uH - 2.5A 10.8X10MM
L502	61409B0002A	Coil,Choke DBF-1030A 30uH - 2.5A 10.8X10MM
L503	6210TCE001G	Filter,Bead HH-1M3216-501JT 500OHM 3.2X1.6X1.3MM
L504	6210TCE001G	Filter,Bead HH-1M3216-501JT 500OHM 3.2X1.6X1.3MM
L505	6210TCE001G	Filter,Bead HH-1M3216-501JT 500OHM 3.2X1.6X1.3MM
L506	6210TCE001G	Filter,Bead HH-1M3216-501JT 500OHM 3.2X1.6X1.3MM
L507	6210TCE001G	Filter,Bead HH-1M3216-501JT 500OHM 3.2X1.6X1.3MM
L508	6210TCE001G	Filter,Bead HH-1M3216-501JT 500OHM 3.2X1.6X1.3MM
L509	6210TCE001G	Filter,Bead HH-1M3216-501JT 500OHM 3.2X1.6X1.3MM
L510	6210TCE001G	Filter,Bead HH-1M3216-501JT 500OHM 3.2X1.6X1.3MM
L511	61409B0002A	Coil,Choke DBF-1030A 30uH - 2.5A 10.8X10MM
L512	61409B0002A	Coil,Choke DBF-1030A 30uH - 2.5A 10.8X10MM
L700	6210TCE001A	Filter,Bead HB-1S2012-080JT 8OHM 2X1.25X1MM
L701	6210TCE001A	Filter,Bead HB-1S2012-080JT 8OHM 2X1.25X1MM
L702	0LC0233002A	Inductor,Multilayer,Chip FI-B2012-332KJT 3.3UH
L800	6210TCE001A	Filter,Bead HB-1S2012-080JT 8OHM 2X1.25X1MM
L801	6210TCE001A	Filter,Bead HB-1S2012-080JT 8OHM 2X1.25X1MM
L900	6210TCE001A	Filter,Bead HB-1S2012-080JT 8OHM 2X1.25X1MM

LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
L901	6210TCE001A	Filter,Bead HB-1S2012-080JT 8OHM 2X1.25X1MM
		CONNECTOR
J801	6630GG00114	UEX-DC-043 D-SUB 14P 1.27MM STRAIGHT FEMALE
J900	6630TGA004K	KCN-DS-1-0089 D-SUB 15P 2.29MM STRAIGHT FEM
P1000	6602T20009N	SMAW200-14P 14P 2.00MM 1R ANGLE DIP ST NATU
P1001	6602T25009M	SMAW250-13P 13P 2.50MM 1R ANGLE DIP ST NATU
P1002	6602T25009J	SMAW250-10 10P 2.50MM 1R ANGLE DIP BK WHITE
P3000	6602T20009C	SMAW200-04P 4P 2.00MM 1R ANGLE DIP ST NATUR
P3001	6602T20009L	SMAW200-12P 12P 2.00MM 1R ANGLE DIP ST NATU
P302	6630VF00530	12507WR-30A00 30P 1.25MM 1R ANGLE SMD TP NA
P304	6602T20009D	SMAW200-05P 5P 2.00MM 1R ANGLE DIP ST NATUR
P305	6602T20009G	SMAW200-08P 8P 2.00MM 1R ANGLE DIP ST NATUR
P4	6602T20011D	YDW200-10 10P 2.00MM 2R STRAIGHT DIP ST NAT
P4000	6602T20009G	SMAW200-08P 8P 2.00MM 1R ANGLE DIP ST NATUR
P500	6602T25009C	SMAW250-04P 4P 2.50MM 1R ANGLE DIP ST NATUR
P5000	6602T20009D	SMAW200-05P 5P 2.00MM 1R ANGLE DIP ST NATUR
P6000	EAG37737601	FAR285-20G01 20P 2.54MM 2R ANGLE DIP BK BLA
P6001	6602T20008N	SMW200-14P 14P 2.00MM 1R STRAIGHT DIP ST NA
P6002	EAG37737601	FAR285-20G01 20P 2.54MM 2R ANGLE DIP BK BLA
P6003	6602T20008P	SMW200-15P 15P 2.00MM 1R STRAIGHT DIP ST NA
P7000	EAG37737401	FAS285-10G01 10P 2.54MM 2R STRAIGHT DIP BK
P7001	6602T20008B	SMW200-03P 3P 2.00MM 1R STRAIGHT DIP ST NAT
P900	6602T20009L	SMAW200-12P 12P 2.00MM 1R ANGLE DIP ST NATU
P901	6602T20008P	SMW200-15P 15P 2.00MM 1R STRAIGHT DIP ST NA
P902	6602T20009C	SMAW200-04P 4P 2.00MM 1R ANGLE DIP ST NATUR
P903	6602T20009B	SMAW200-03P 3P 2.00MM 1R ANGLE DIP ST NATUR
	6631900012C	SMH250 SMH250 200mM 2.50MM 10P UL1007 AWG24
	6631900013B	SMH200-12P SMH200-12P 150mM 2.00MM 12P UL10
	6631900048B	EAD00393302 SMH200 SMH200 150mM 2.00MM 4P U
	6631T20010F	SMH200-03 SMH200-03 SMH200-03 180mM 2.00MM
	6631T20033C	SMH200-5P SMH200-5P 220mM 2.00MM 5P UL1061
	6631T25023R	6631T25023R SMH250 SMH250 140mM 2.50MM 13P
	6631T25026L	4P TO TERMINAL(350/650) SMH250 35098T 600mM
	EAD38509801	8P(650) SMH200-08 SMH200-08 650mm 2.00MM 8P
	EAD38598801	SMH200-14(TUBE) SMH200-14 SMH200-14 100MM 2
	EAD38598901	SMH-15(TUBE) SMH200-15(YEON HO) SMH200-15(Y
	EAD38599001	10P(SHIELD) YDH200-10 (YEON HO) YDH200-10
	EAD39242201	1 2 UL1617AWG22 N YH396-03V 250MM/250MM/130
		JACKs
J3000	6613V00018A	PMJ026A 25P RCA3P,DIN,PHONE JACK 14/15.5/15
J700	6612B00015C	DC1R019WDH. SOCKET 21P STRAIGHT SMD R/TP 33
J701	6612J10026A	RCA-359HA-00A-01G 14.0MM 1RX3C STRAIGHT TR
J800	6612J10002D	PPJ200-02 14.0MM 1RX2C STRAIGHT TR 2PORTS_R
		SWITCHes
SW5000	140-058B	EVQPB205K 1C1P 15VDC 0.02A VERTICAL 160GF R
SW5001	140-058B	EVQPB205K 1C1P 15VDC 0.02A VERTICAL 160GF R
SW5002	140-058B	EVQPB205K 1C1P 15VDC 0.02A VERTICAL 160GF R
SW5003	140-058B	EVQPB205K 1C1P 15VDC 0.02A VERTICAL 160GF R
SW5004	140-058B	EVQPB205K 1C1P 15VDC 0.02A VERTICAL 160GF R

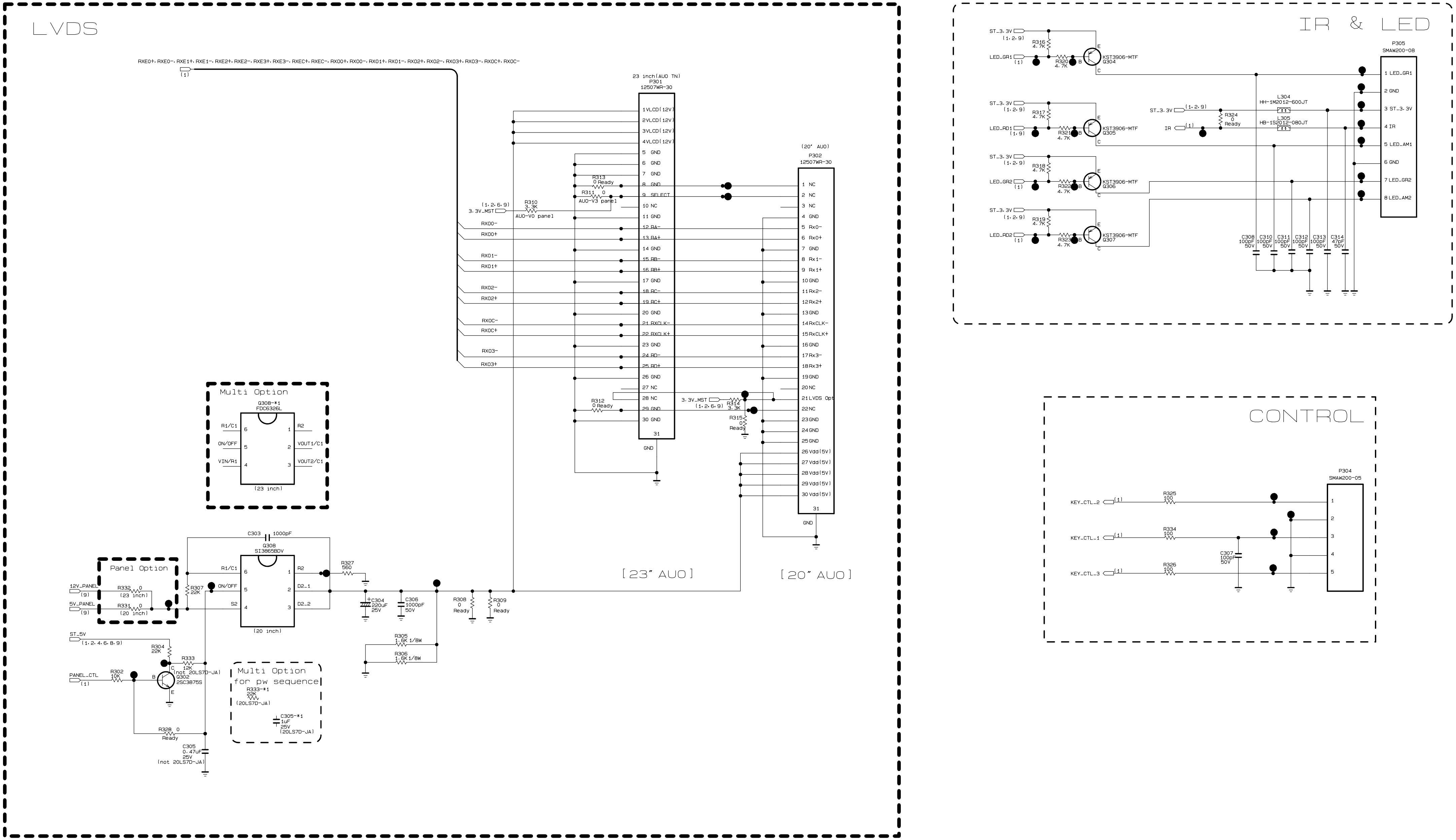
LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
SW5005	140-058B	EVQPB205K 1C1P 15VDC 0.02A VERTICAL 160GF R
	6600F00001D	SDDJE11600 AC 2C1P 250VAC 10A ON-OFF HORIZO
		OTHERs
D4000	0DLBE0138AA	LED,DIP BL-BUBGE301 ROUND 3MM SUPER
D4001	0DLBE0138AA	LED,DIP BL-BUBGE301 ROUND 3MM SUPER
IC102	SAA30927304	S/W,Firmware 3.00 042F JAPAN FLASH ROM
PA4000	6712SCA232A	Receiver Module TSOP34838SO1 2.7TO5.5V 1.5MA
TU600	EBL35311216	Tuner,Tuner/Modulator 55.25MHZTO867.25MHZ 45.75M
X100	6202VDT002B	Crystal SX-1 14.31818MHZ 30PPM(16PF) 14.31818MHZ
	64109JP002B	Power Cord PP8F9QNBK0A-062 1.87M
	6852TAZ015B	Cable,Assembly 62LC-10M-P2_1 MODULAR PLUG 10M
		ACCESSORY
A1	MFL39444601	Manual,Owners USER LJ71A 20/23LS7D-JA Japanes
A5	4950TKA320A	Plate PRESS SBHG T1.2 SUPPORT UPSET
A6	FAB30006504	Screw,Machine FAB30006504 BH + 4MM 10MM
A7	6612B00020A	Jack,Modular MH-662EC-6P4C 8P 1.27MM
A8	FAB30013204	Screw,Taptite FAB30013204 BWH + P 3MM 10MM



THE ⚠ SYMBOL MARK OF THIS SCHEMATIC DIAGRAM INCORPORATES SPECIAL FEATURES IMPORTANT FOR PROTECTION FROM X-RADIATION. FILRE AND ELECTRICAL SHOCK HAZARDS. WHEN SERVICING IF IS ESSENTIAL THAT ONLY MANUFATURES SPECFIED PARTS BE USED FOR THE CRITICAL COMPONENTS IN THE ⚠ SYMBOL MARK OF THE SCHEMATIC.

LG ELECTRONICS

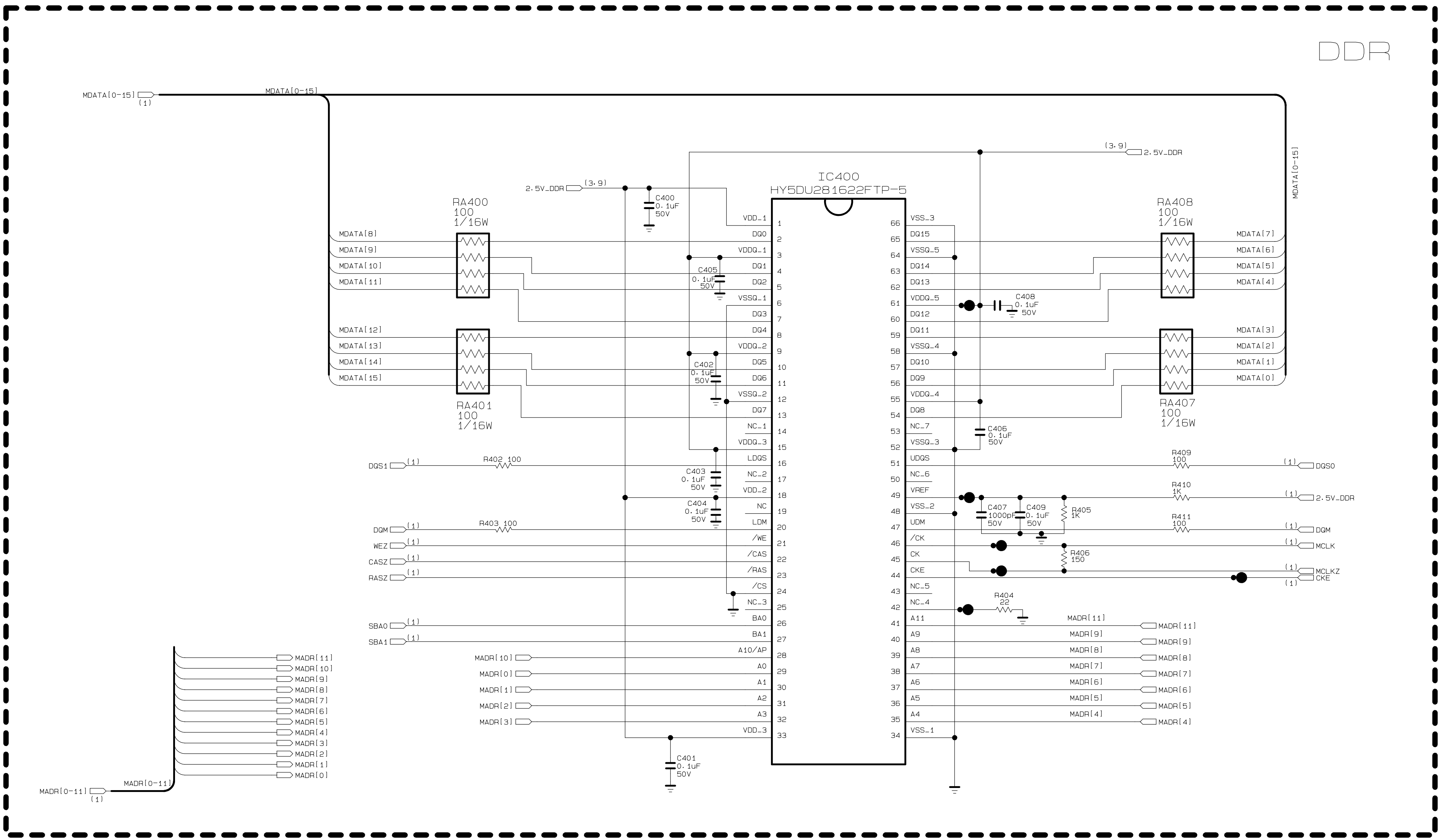
MODEL	20/23LS7D-JA	DATE	07.07.18(MP)
BLOCK	Mstar	SHEET	1 / 15



THE ⚠ SYMBOL MARK OF THIS SCHEMETIC DIAGRAM INCORPORATES SPECIAL FEATURES IMPORTANT FOR PROTECTION FROM X-RADIATION. FILRE AND ELECTRICAL SHOCK HAZARDS, WHEN SERVICING IF IS ESSENTIAL THAT ONLY MANUFATURES SPECFIED PARTS BE USED FOR THE CRITICAL COMPONENTS IN THE ⚠ SYMBOL MARK OF THE SCHEMETIC.

LG ELECTRONICS

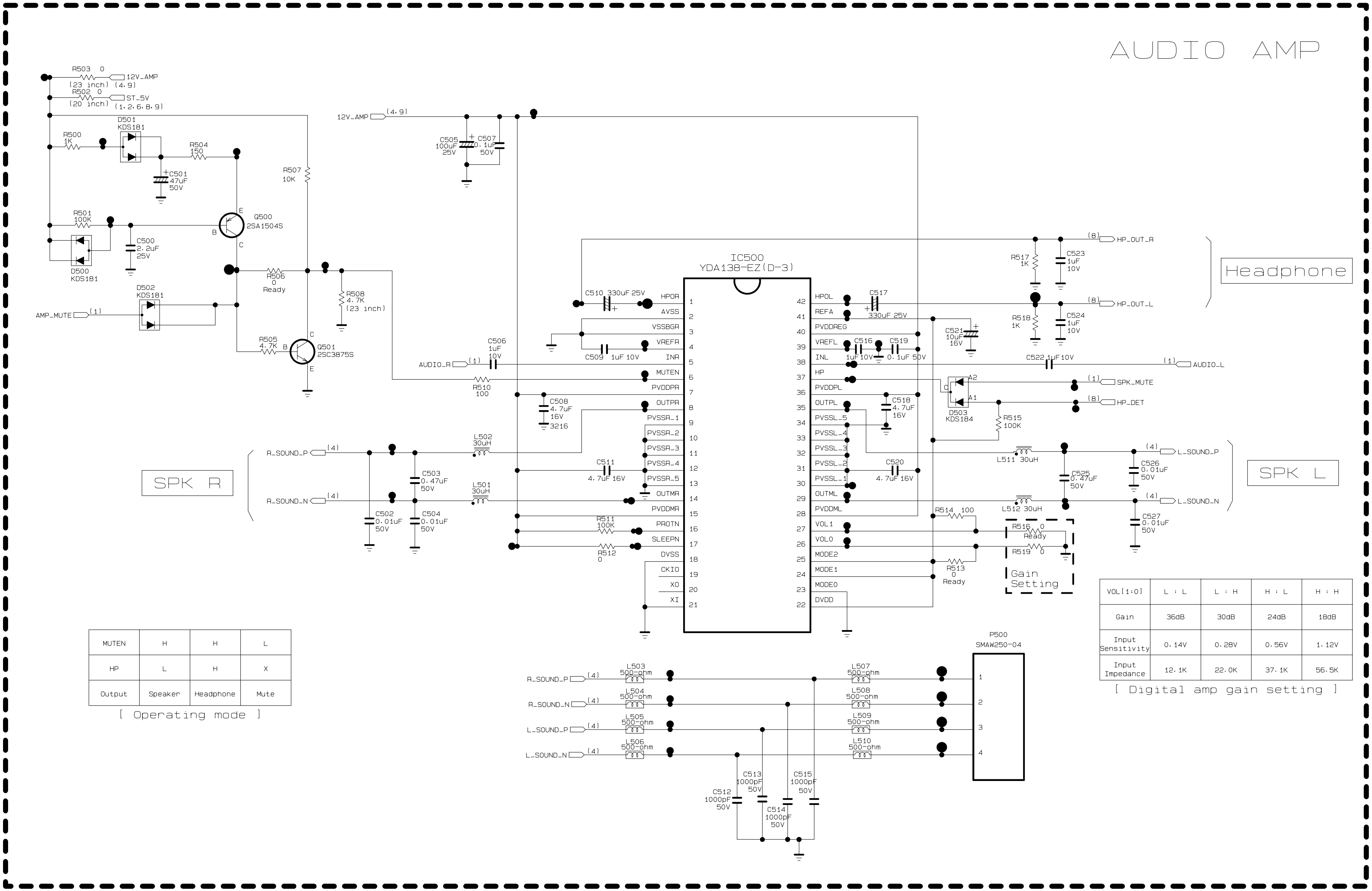
MODEL	20/23LS7D-JA	DATE	07. 07. 18(MP)
BLOCK	Panel & Connector	SHEET	2 / 15



THE ⚠ SYMBOL MARK OF THIS SCHEMETIC DIAGRAM INCORPORATES
SPECIAL FEATURES IMPORTANT FOR PROTECTION FROM X-RADIATION.
FILRE AND ELECTRICAL SHOCK HAZARDS, WHEN SERVICING IF IS
ESSENTIAL THAT ONLY MANUFATURES SPECFIED PARTS BE USED FOR
THE CRITICAL COMPONENTS IN THE ⚠ SYMBOL MARK OF THE SCHEMETIC.

LG ELECTRONICS

MODEL	20/23LS7D-JA	DATE	07. 07. 18(MP)
BLOCK	DDR	SHEET	3 / 15



MUTEN	H	H	L
HP	L	H	X
Output	Speaker	Headphone	Mute

[Operating mode]

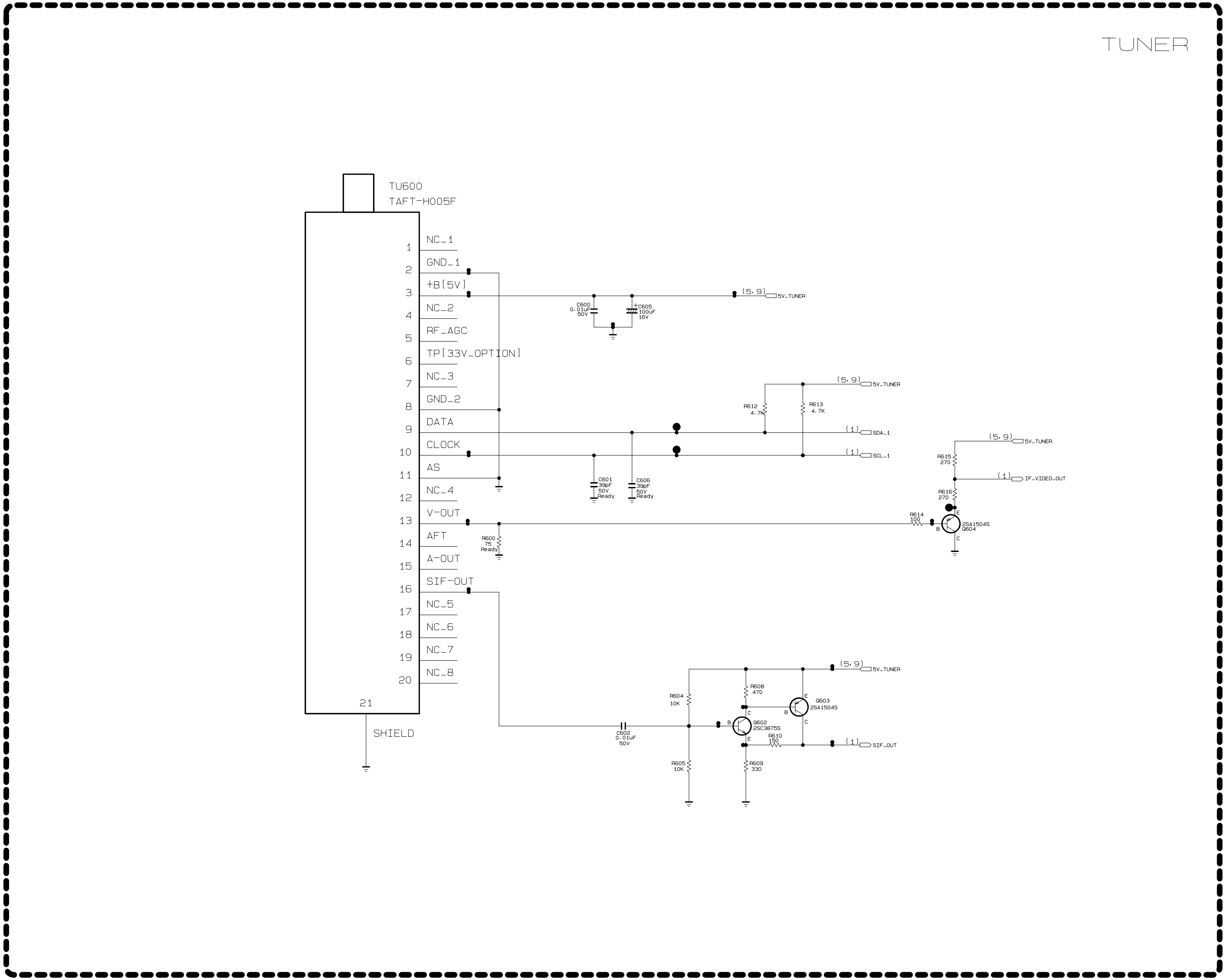
VOL[1:0]	L : L	L : H	H : L	H : H
Gain	36dB	30dB	24dB	18dB
Input Sensitivity	0.14V	0.28V	0.56V	1.12V
Input Impedance	12.1K	22.0K	37.1K	56.5K

[Digital amp gain setting]

THE ⚠ SYMBOL MARK OF THIS SCHEMETIC DIAGRAM INCORPORATES SPECIAL FEATURES IMPORTANT FOR PROTECTION FROM X-RADIATION. FILRE AND ELECTRICAL SHOCK HAZARDS, WHEN SERVICING IF IS ESSENTIAL THAT ONLY MANUFATURES SPECFIED PARTS BE USED FOR THE CRITICAL COMPONENTS IN THE ⚠ SYMBOL MARK OF THE SCHEMETIC.

LG ELECTRONICS

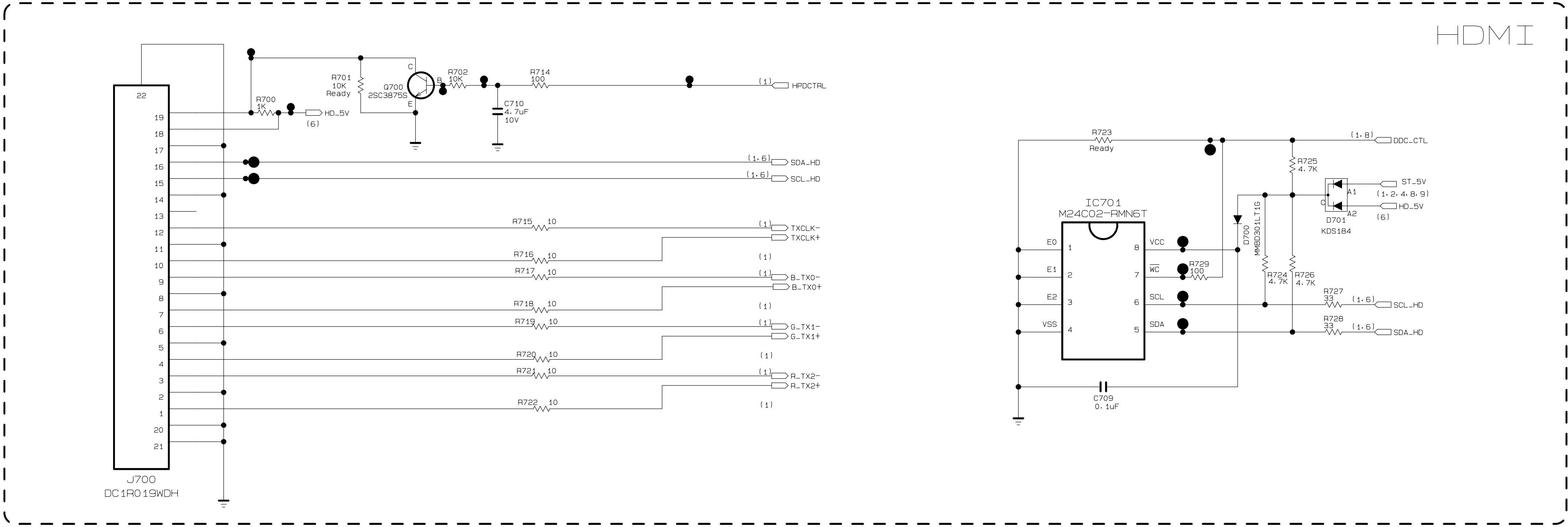
MODEL	20/23LS7D-JA	DATE	07.07.18(MP)
BLOCK	AUDIO AMP	SHEET	4 / 15

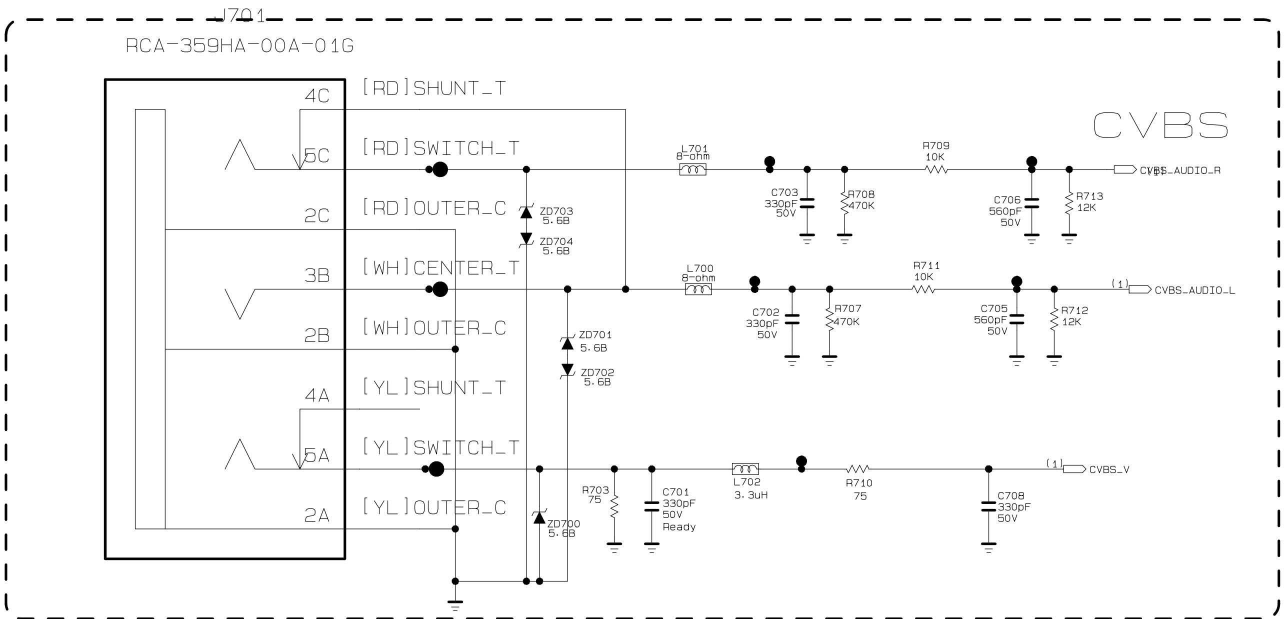


THE ⚠ SYMBOL MARK OF THIS SCHEMETIC DIAGRAM INCORPORATES SPECIAL FEATURES IMPORTANT FOR PROTECTION FROM X-RADIATION. FILRE AND ELECTRICAL SHOCK HAZARDS. WHEN SERVICING IF IS ESSENTIAL THAT ONLY MANUFATURES SPECFIED PARTS BE USED FOR THE CRITICAL COMPONENTS IN THE ⚠ SYMBOL MARK OF THE SCHEMETIC.

LG ELECTRONICS

MODEL	20/23LS7D-JA	DATE	07. 07. 18(MP)
BLOCK	TUNER	SHEET	5 / 15

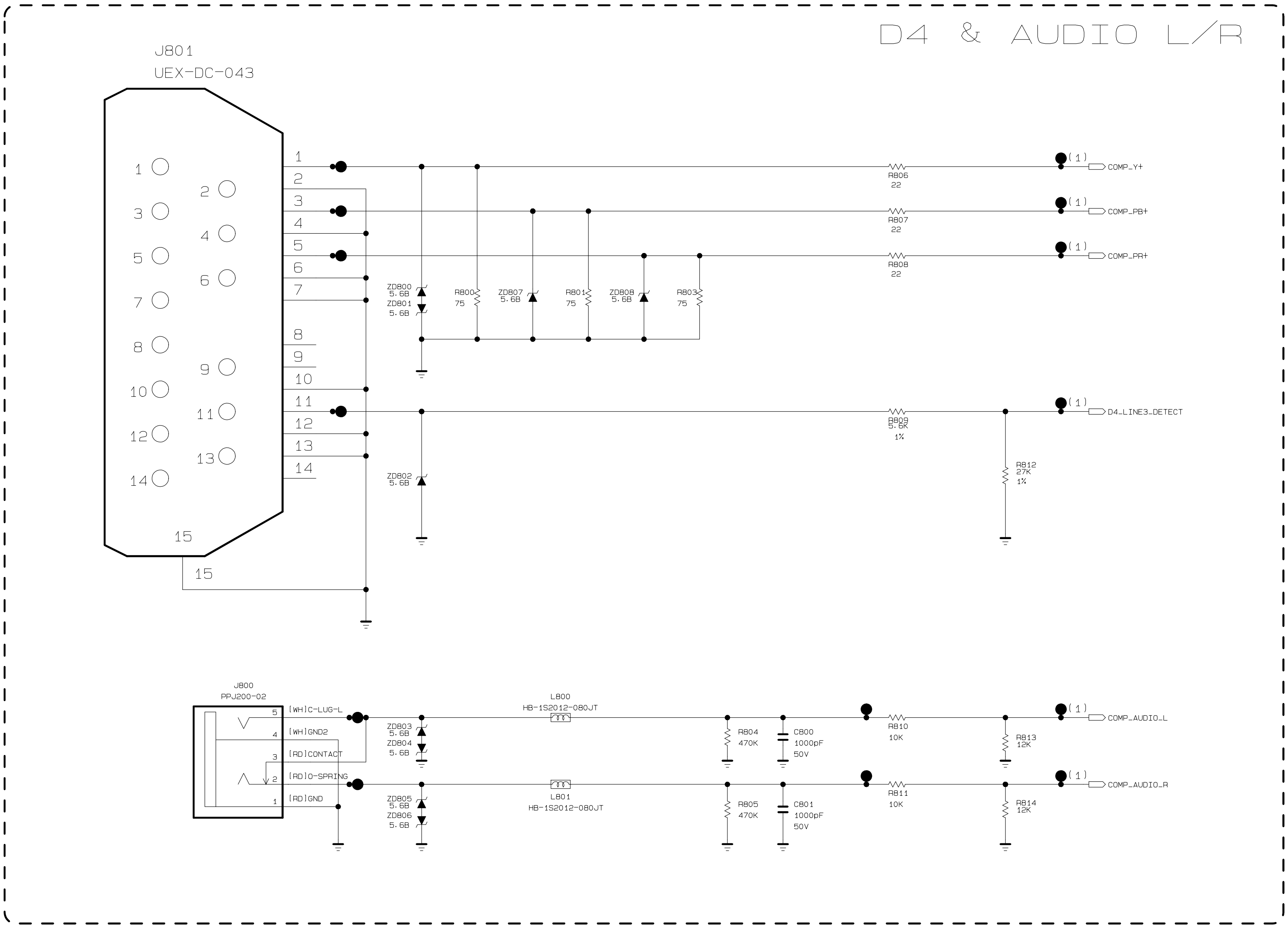




THE ⚠ SYMBOL MARK OF THIS SCHEMETIC DIAGRAM INCORPORATES
SPECIAL FEATURES IMPORTANT FOR PROTECTION FROM X-RADIATION.
FILRE AND ELECTRICAL SHOCK HAZARDS. WHEN SERVICING IF IS
ESSENTIAL THAT ONLY MANUFATURES SPECFIED PARTS BE USED FOR
THE CRITICAL COMPONENTS IN THE ⚠ SYMBOL MARK OF THE SCHEMETIC.

LG ELECTRONICS

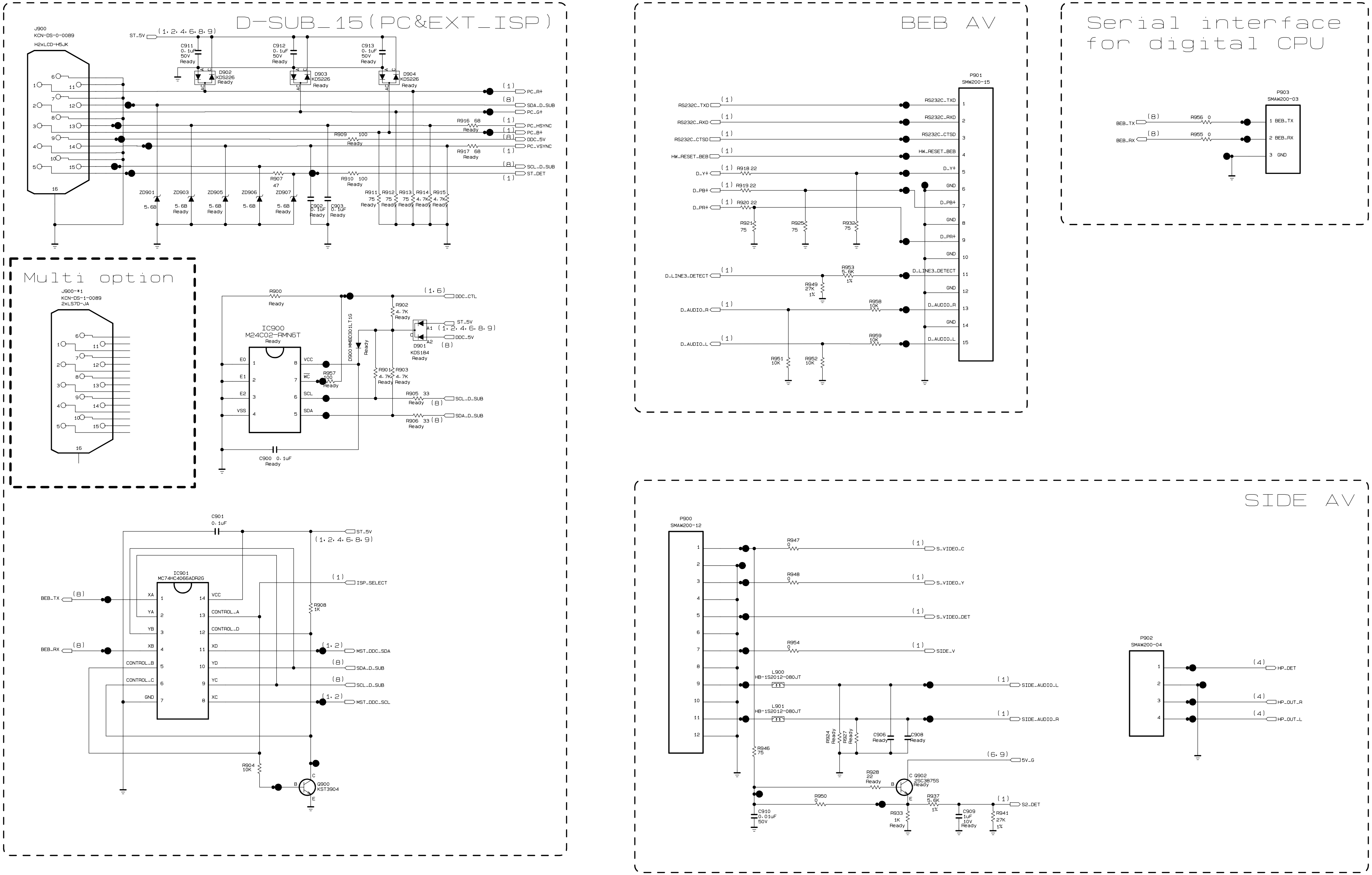
MODEL	20/23LS7D-JA	DATE	07.07.18(MP)
BLOCK	HDMI&CVBS	SHEET	6 / 15



THE ⚠ SYMBOL MARK OF THIS SCHEMETIC DIAGRAM INCORPORATES SPECIAL FEATURES IMPORTANT FOR PROTECTION FROM X-RADIATION. FILRE AND ELECTRICAL SHOCK HAZARDS, WHEN SERVICING IF IS ESSENTIAL THAT ONLY MANUFATURES SPECFIED PARTS BE USED FOR THE CRITICAL COMPONENTS IN THE ⚠ SYMBOL MARK OF THE SCHEMETIC.

LG ELECTRONICS

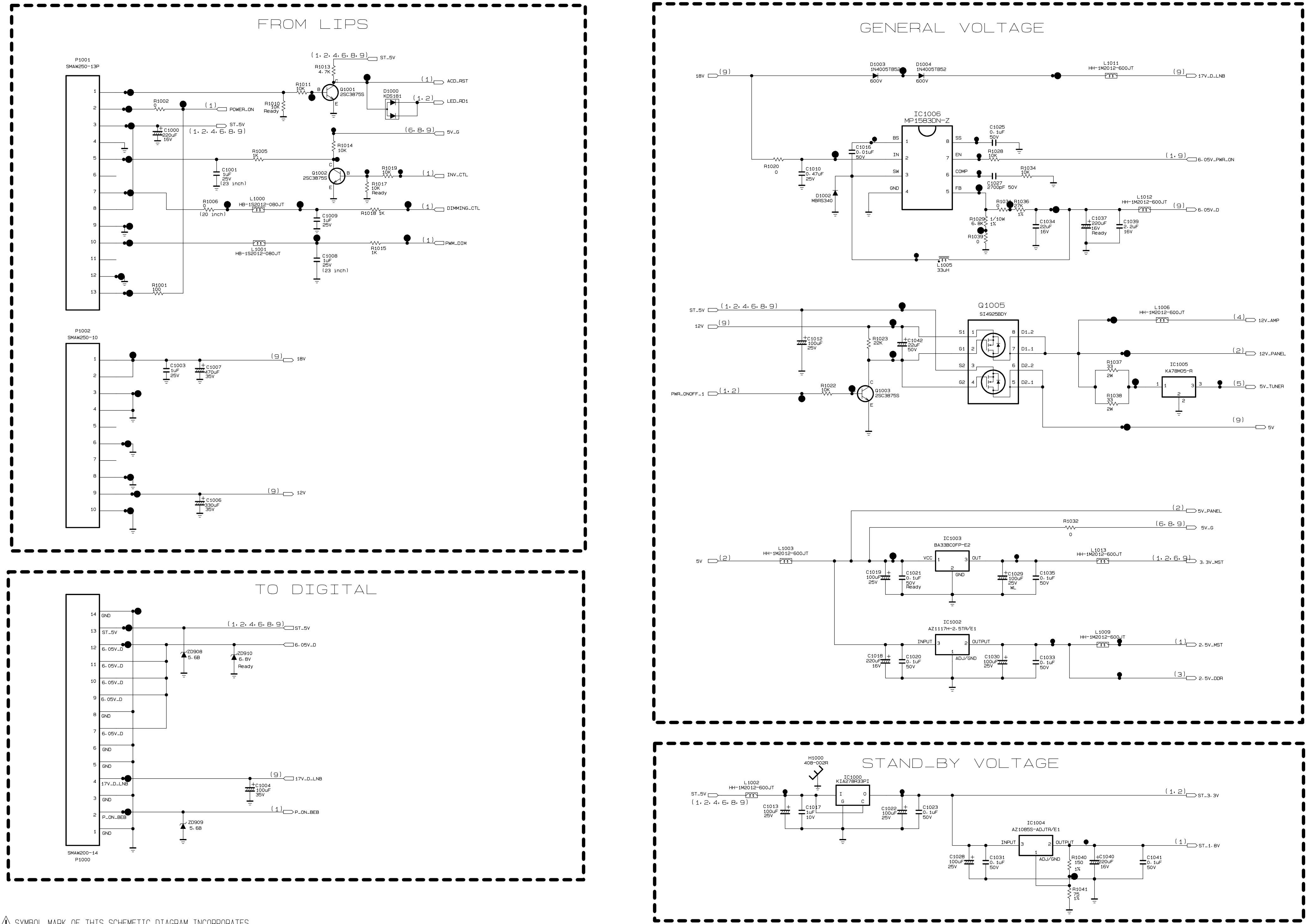
MODEL	20/23LS7D-JA	DATE	07.07.18(MP)
BLOCK	D4&AUDIO	SHEET	7 / 15



THE ⚠ SYMBOL MARK OF THIS SCHEMETIC DIAGRAM INCORPORATES SPECIAL FEATURES IMPORTANT FOR PROTECTION FROM X-RADIATION. FILRE AND ELECTRICAL SHOCK HAZARDS, WHEN SERVICING IF IS ESSENTIAL THAT ONLY MANUFATURES SPECFIED PARTS BE USED FOR THE CRITICAL COMPONENTS IN THE ⚠ SYMBOL MARK OF THE SCHEMETIC.

LG ELECTRONICS

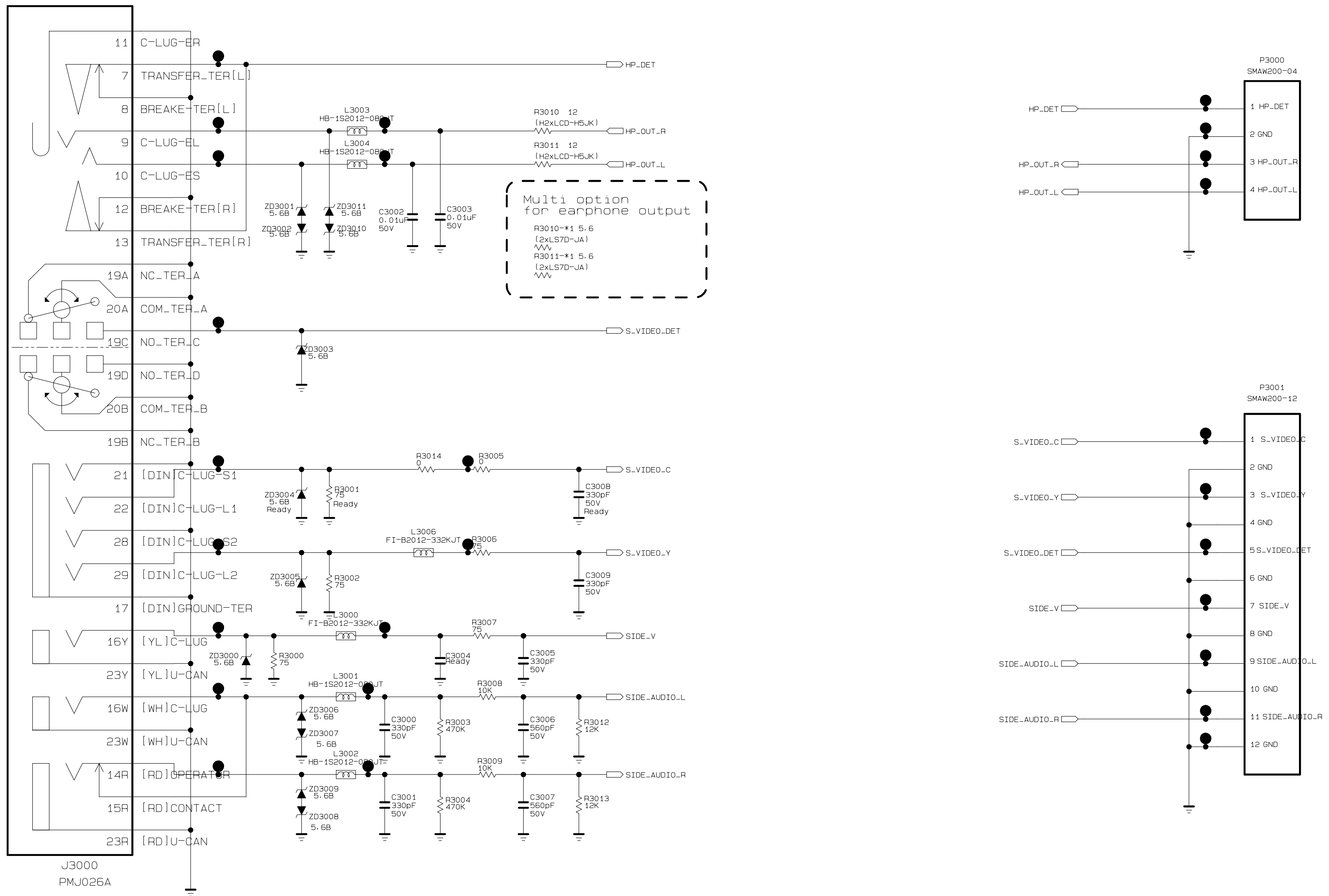
MODEL	20/23LS7D-JA	DATE	07.07.18(MP)
BLOCK	Other Input	SHEET	8 / 15



THE ⚠ SYMBOL MARK OF THIS SCHEMETIC DIAGRAM INCORPORATES SPECIAL FEATURES IMPORTANT FOR PROTECTION FROM X-RADIATION. FILRE AND ELECTRICAL SHOCK HAZARDS, WHEN SERVICING IF IS ESSENTIAL THAT ONLY MANUFATURES SPECFIED PARTS BE USED FOR THE CRITICAL COMPONENTS IN THE ⚠ SYMBOL MARK OF THE SCHEMETIC.

LG ELECTRONICS

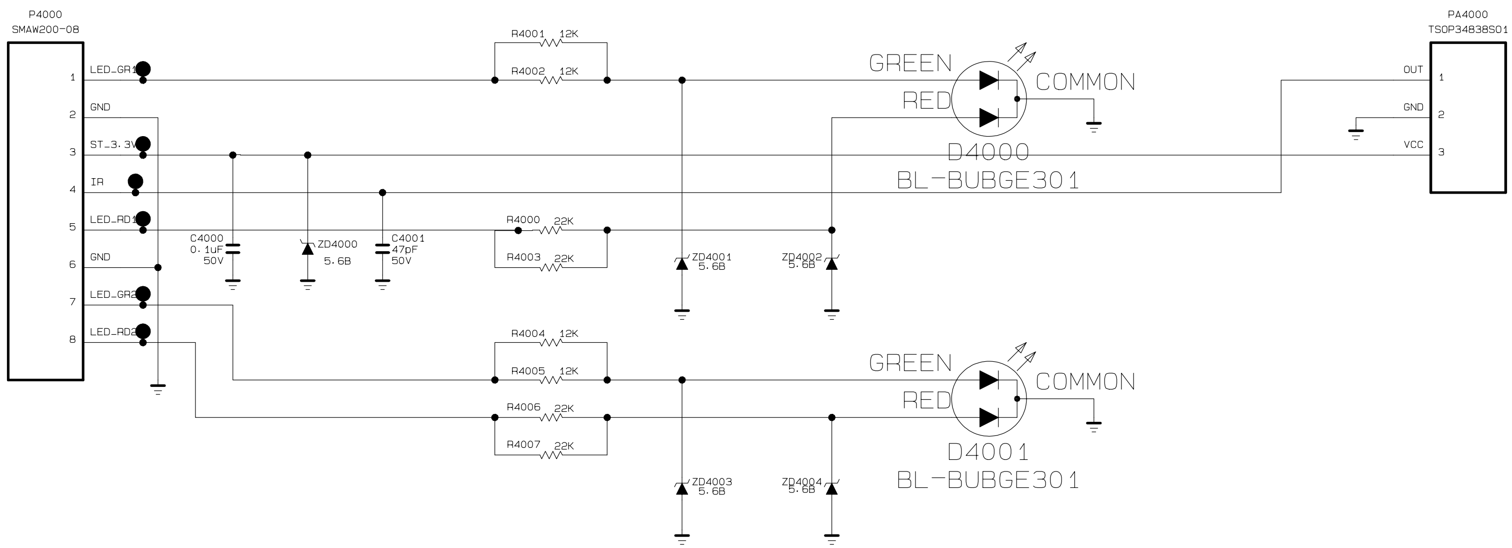
MODEL	20/23LS7D-JA	DATE	07.07.18(MP)
BLOCK	POWER	SHEET	9 / 15



THE ⚠ SYMBOL MARK OF THIS SCHEMETIC DIAGRAM INCORPORATES SPECIAL FEATURES IMPORTANT FOR PROTECTION FROM X-RADIATION. FILRE AND ELECTRICAL SHOCK HAZARDS. WHEN SERVICING IF IS ESSENTIAL THAT ONLY MANUFATURES SPECFIED PARTS BE USED FOR THE CRITICAL COMPONENTS IN THE ⚠ SYMBOL MARK OF THE SCHEMETIC.

LG ELECTRONICS

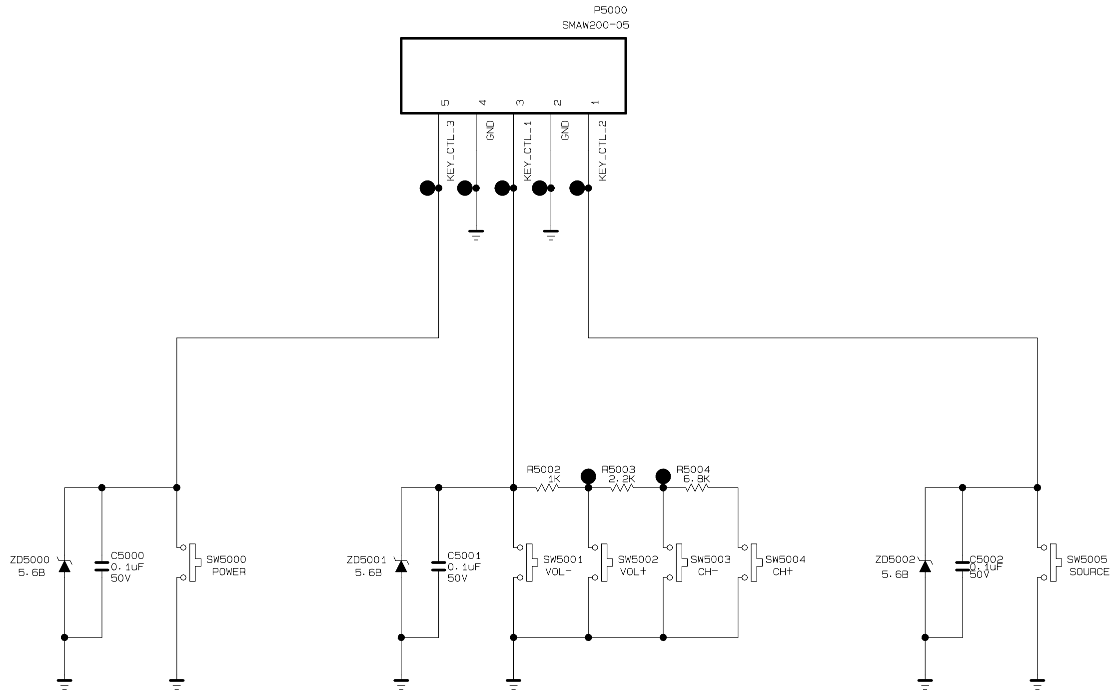
MODEL	20/23LS7D-JA	DATE	07.07.18(MP)
BLOCK	SIDE AV	SHEET	10 / 15



THE ⚠ SYMBOL MARK OF THIS SCHEMETIC DIAGRAM INCORPORATES SPECIAL FEATURES IMPORTANT FOR PROTECTION FROM X-RADIATION. FILRE AND ELECTRICAL SHOCK HAZARDS, WHEN SERVICING IF IS ESSENTIAL THAT ONLY MANUFATURES SPECFIED PARTS BE USED FOR THE CRITICAL COMPONENTS IN THE ⚠ SYMBOL MARK OF THE SCHEMETIC.

LG ELECTRONICS

MODEL	20/23LS7D-JA	DATE	07.07.18(MP)
BLOCK	IR/LED	SHEET	11 / 15

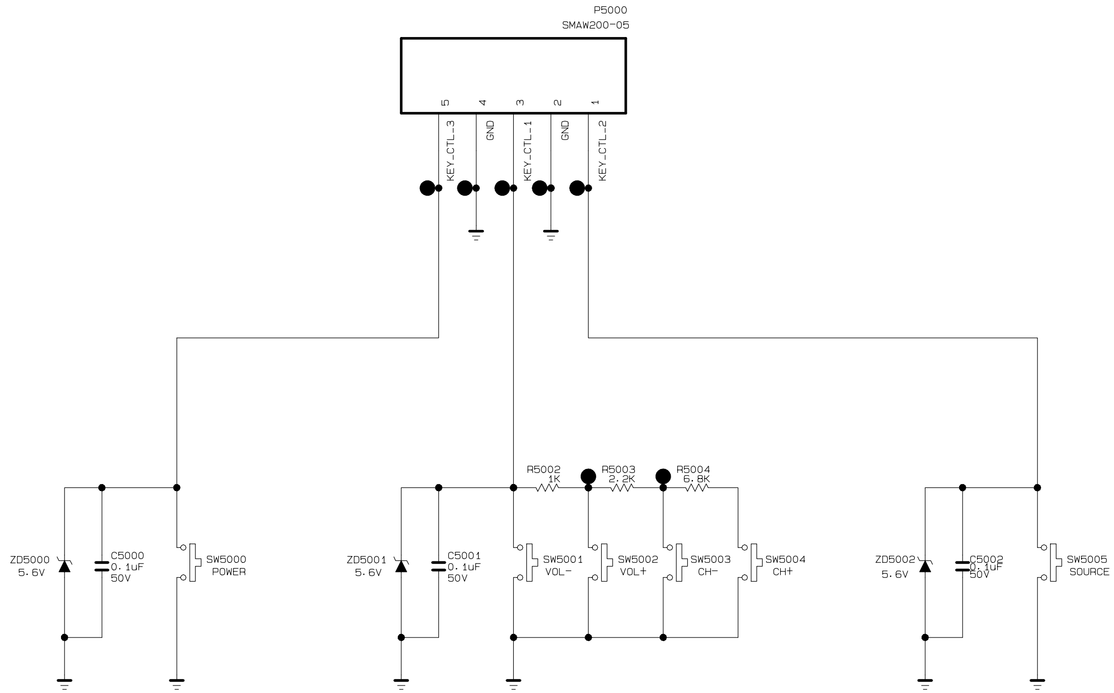


SW5001	SW5002	SW5003	SW5004
0V	0.767V	1.625V	2.481V

THE ⚠ SYMBOL MARK OF THIS SCHEMETIC DIAGRAM INCORPORATES SPECIAL FEATURES IMPORTANT FOR PROTECTION FROM X-RADIATION. FILRE AND ELECTRICAL SHOCK HAZARDS, WHEN SERVICING IF IS ESSENTIAL THAT ONLY MANUFATURES SPECFIED PARTS BE USED FOR THE CRITICAL COMPONENTS IN THE ⚠ SYMBOL MARK OF THE SCHEMETIC.

LG ELECTRONICS

MODEL	20LS7D-JA	DATE	07.07.18(MP)
BLOCK	CONTROL	SHEET	12 / 15

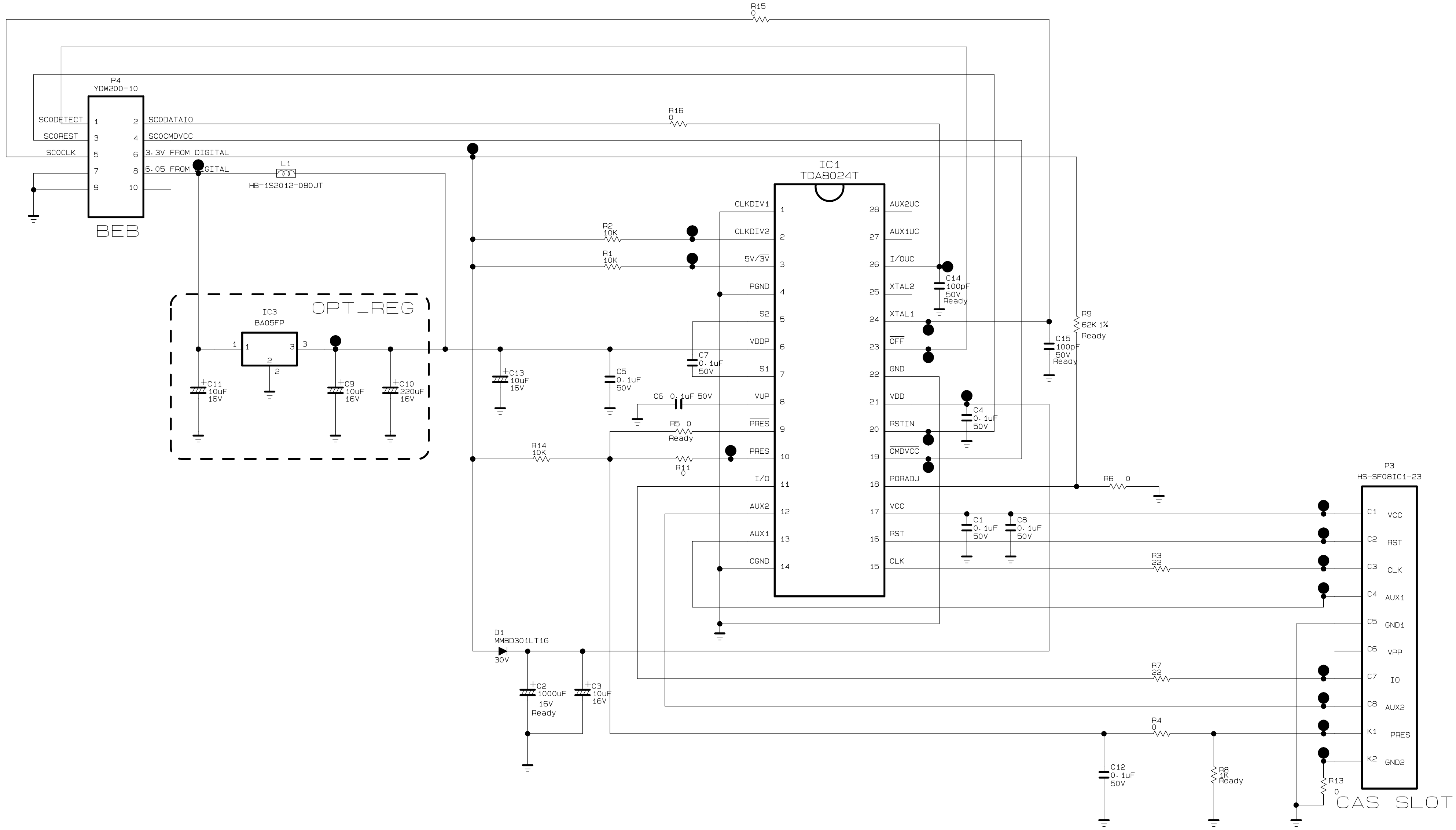


SW5001	SW5002	SW5003	SW5004
0V	0.767V	1.625V	2.481V

THE ⚠ SYMBOL MARK OF THIS SCHEMETIC DIAGRAM INCORPORATES SPECIAL FEATURES IMPORTANT FOR PROTECTION FROM X-RADIATION. FILRE AND ELECTRICAL SHOCK HAZARDS, WHEN SERVICING IF IS ESSENTIAL THAT ONLY MANUFATURES SPECFIED PARTS BE USED FOR THE CRITICAL COMPONENTS IN THE ⚠ SYMBOL MARK OF THE SCHEMETIC.

LG ELECTRONICS

MODEL	23LS7D-JA	DATE	07.07.18(MP)
BLOCK	CONTROL	SHEET	12 / 15

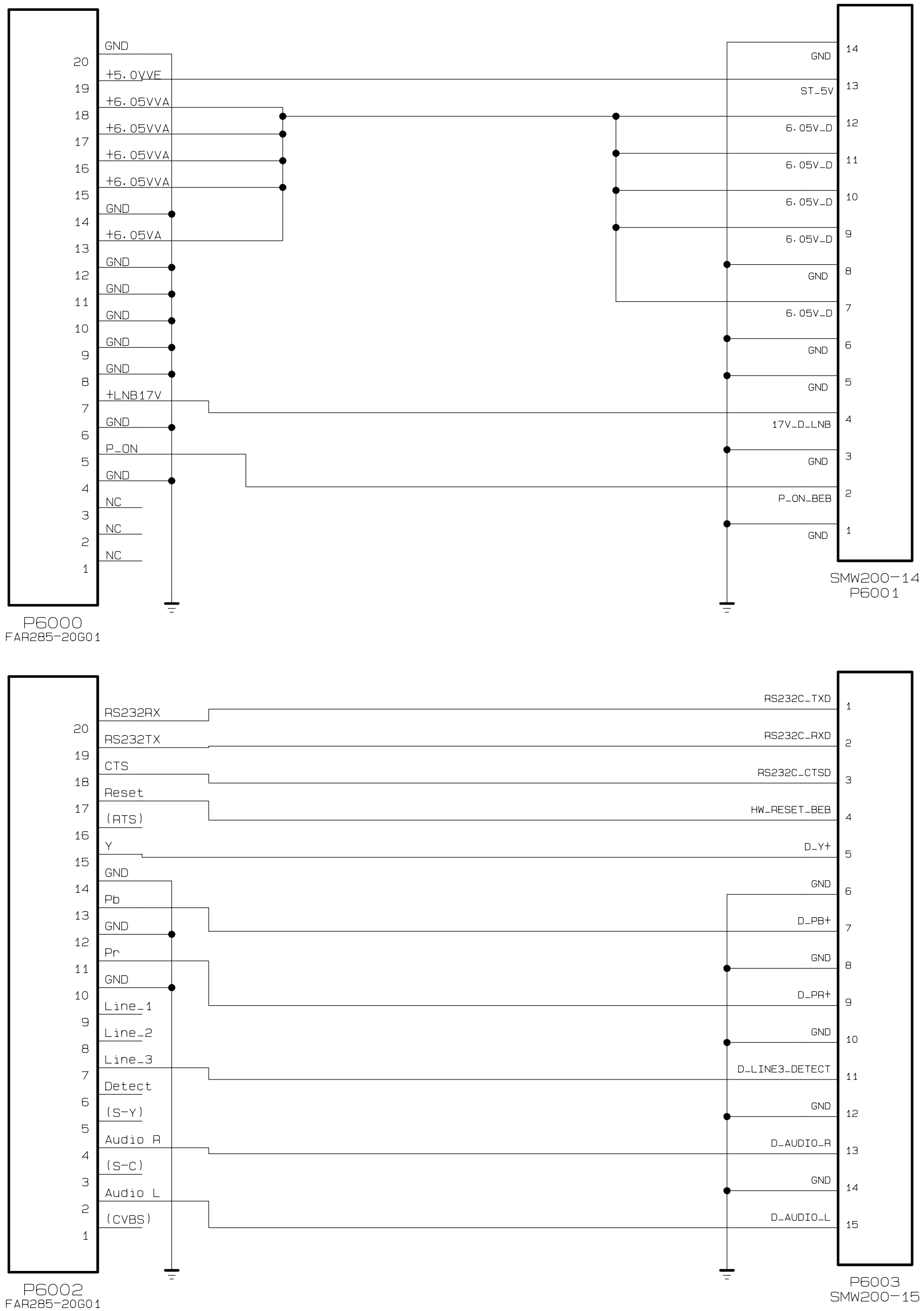


THE ⚠ SYMBOL MARK OF THIS SCHEMETIC DIAGRAM INCORPORATES SPECIAL FEATURES IMPORTANT FOR PROTECTION FROM X-RADIATION. FILRE AND ELECTRICAL SHOCK HAZARDS, WHEN SERVICING IF IS ESSENTIAL THAT ONLY MANUFATURES SPECFIED PARTS BE USED FOR THE CRITICAL COMPONENTS IN THE ⚠ SYMBOL MARK OF THE SCHEMETIC.

LG ELECTRONICS

MODEL	20/23LS7D-JA	DATE	07.07.18(MP)
BLOCK	CAS INTERFACE	SHEET	13 / 15

Connecting main and D/B(20P)

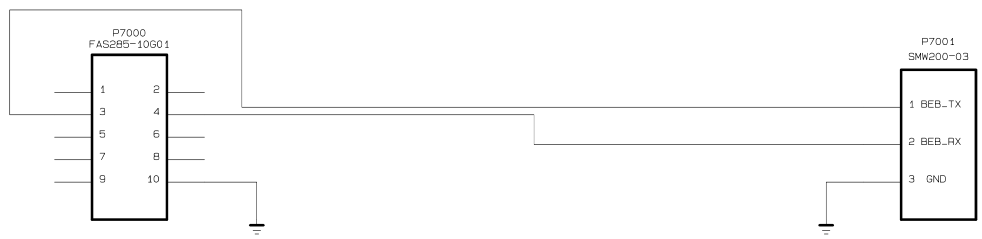


THE ⚠ SYMBOL MARK OF THIS SCHEMETIC DIAGRAM INCORPORATES SPECIAL FEATURES IMPORTANT FOR PROTECTION FROM X-RADIATION. FILRE AND ELECTRICAL SHOCK HAZARDS, WHEN SERVICING IF IS ESSENTIAL THAT ONLY MANUFATURES SPECFIED PARTS BE USED FOR THE CRITICAL COMPONENTS IN THE ⚠ SYMBOL MARK OF THE SCHEMETIC.

LG ELECTRONICS

MODEL	20/23LS7D-JA	DATE	07.07.18(MP)
BLOCK	Interface_1	SHEET	14 / 15

Connecting main and D/B(10P)



THE ⚠ SYMBOL MARK OF THIS SCHEMETIC DIAGRAM INCORPORATES SPECIAL FEATURES IMPORTANT FOR PROTECTION FROM X-RADIATION. FILRE AND ELECTRICAL SHOCK HAZARDS, WHEN SERVICING IF IS ESSENTIAL THAT ONLY MANUFATURES SPECFIED PARTS BE USED FOR THE CRITICAL COMPONENTS IN THE ⚠ SYMBOL MARK OF THE SCHEMETIC.

LG ELECTRONICS

MODEL	20/23LS7D-JA	DATE	07.07.18(MP)
BLOCK	Interface_2	SHEET	15 / 15

LG Electronics Inc.

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